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# 1988 IUCN Red List of Threatened Animals



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**1988 IUCN RED LIST  
OF THREATENED ANIMALS**

## **IUCN**

IUCN (International Union for Conservation of Nature and Natural Resources) is a membership organisation comprising governments, non-governmental organisations (NGOs), research institutions, and conservation agencies, whose objective is to promote and encourage the protection and sustainable use of living resources.

Founded in 1948, IUCN has nearly 600 members representing 116 countries. Its six Commissions comprise a global network of experts on threatened species, protected areas, ecology, environmental planning, environmental law, and environmental education. Its thematic programmes include tropical forests, wetlands, marine ecosystems, plants, oceanic islands, the Sahel, Antarctica, and population and sustainable development.

### **THE IUCN CONSERVATION MONITORING CENTRE**

The Conservation Monitoring Centre (CMC) is the division of IUCN that provides an information service to the Union, its members, and the conservation and development communities. CMC has developed an integrated and cross-referenced global database on animals, plants and habitats of conservation concern, on protected areas throughout the world, and on the international trade in wildlife species and products. CMC produces a wide variety of specialist outputs and reports based on the analysis of this data, including such major publications as the Red Data Books and Protected Areas Directories, which are now recognised as the authoritative reference works in their field.

Other IUCN Centres focus on Environmental Law, and Conservation for Development. Collectively, this information and expertise is used to assist IUCN and its members to develop conservation policy and implement programmes, and to promote a greater awareness of the need for sound conservation practice by the international development community.

Should you wish to consult these services please contact:

IUCN Secretariat, World Conservation Centre  
Avenue du Mont-Blanc, CH-1196 Gland, Switzerland

**1988 IUCN RED LIST  
OF THREATENED ANIMALS**



**Prepared by**

**The IUCN Conservation Monitoring Centre  
Cambridge U.K.**

In association with the  
International Council for Bird Preservation

With the support of the  
**David Shepherd Charitable Foundation**

Guest Essay by

**Dr Bruce Wilcox  
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## PREAMBLE

The activities of the Species Survival Commission (SSC) and the Conservation Monitoring Centre (CMC) can be judged by their success in terms of species saved from extinction.

As we all know, there are many success stories that we can point to, but the sad reality is that we are still losing species every day as the relentless pressure from humankind continues.

If we do not develop a successful model in which population is stabilised we are all working in vain. Sustainable natural resources are limited, a message that we must ensure is fully understood.

Once one realises that between the covers of this deceptively slim volume we only have listed those species where we know the actual situation in the "wild", can one understand the possible stress and potential threat the majority of unlisted species - because of our lack of knowledge - are subjected to.

The aims for both the Species Survival Commission and the Conservation Monitoring Centre must be to obtain action for these listed species, which is where the forthcoming SSC Action Plans play their role and, equally vitally, to ensure the steady build up and maintenance of the database for all the "conservationally" unknown species which we need to include in our concerns.

It is good to see this new 1988 edition of the IUCN Red List of Threatened Animals, and to thank the David Shepherd Charitable Foundation for their financial support in ensuring its publication. The hard work of all the CMC team carried out quietly and often under great financial stringency is again well rewarded in the quality of the publication.

Gren Ll. Lucas

Chairman,  
IUCN Species Survival Commission

7 December 1987



## INTRODUCTION

The IUCN Red List of Threatened Animals is an index of those animal species known to IUCN to be threatened with extinction. It complements the IUCN Red Data Book series, which contains detailed information on the status of species and of the measures needed to conserve them. Such information provides the essential first step in the development of action plans to conserve species, and in the development of priorities for scarce conservation funds. It also provides an information source for scientists, educationalists, zoos, the media and the general public, and is an important tool for the implementation of international wildlife treaties such as the Convention on International Trade in Endangered Species of Wild Flora and Fauna (CITES), the Bonn Migratory Species Convention, and the Convention on the Conservation of European Wildlife and Natural Habitats.

Conservation data held on individual species can be analysed to determine sites of special conservation concern, to determine the percentage of species known to occur in protected areas and those for which habitat protection is still non-existent, and those requiring legal protection. Such analyses in turn stimulate conservation activities, the results of which are then fed back into the data system to determine new conservation priorities. The IUCN Conservation Monitoring Centre in collaboration with IUCN's Species Survival Commission and the International Council for Bird Preservation (ICBP) are maintaining and developing this important data base on the status of the world's species as an essential component of their conservation programmes.

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IUCN's threatened species list is compiled and maintained by the IUCN Conservation Monitoring Centre with assistance from the International Council for Bird Preservation. It is published periodically. For each threatened taxon, the list provides the scientific name, English vernacular name (where known), IUCN category (for definitions see page xvii), and a brief description of the animal's distribution. This is followed by an index to the list based on the order, family and generic listing. Vernacular names for major groupings such as monkeys, parrots, and butterflies are also included.

Data upon which the listings are made are gathered from literature searches and from correspondence with specialists around the world, including those belonging to the Specialist Groups of IUCN's Species Survival Commission and the International Council for Bird Preservation. The majority of vertebrate listings are based on the IUCN Red Data Books and recommendations and documentation provided by IUCN and ICBP. For invertebrates, however, it must be stressed that the list is only provisional, since most species have not yet been subjected to the same review process as has been carried out for the vertebrate groups, apart from those listed in the IUCN Invertebrate Red Data Book and the Swallowtail Butterfly Red Data Book. Other invertebrate listings have been taken from correspondence and a number of published sources (noted on page xv).

The number of threatened animal taxa identified by IUCN is 4589, comprised of 555 mammals, 1073 birds, 186 reptiles, 54 amphibians, 596 fishes, and 2125 invertebrates. However, except for birds, for which ICBP/IUCN have now attempted a global review, these numbers represent only those taxa whose threatened status is known to IUCN; many, many more taxa, particularly invertebrates, are threatened, and becoming extinct every year undescribed and unknown to the scientific and conservation communities. Thus the number of threatened taxa identified by IUCN represents only the visible fraction of a much greater problem. The magnitude of this problem is discussed in detail by Bruce Wilcox in the "Guest Essay" included in this volume (page v).

The IUCN threatened species list is constantly under review; as new areas or taxonomic groups are surveyed, species may be listed or delisted or categories may change, for example, the status of sea turtle species is currently under review. Since it is not possible for all parts of the list to be reviewed simultaneously it is inevitable that some parts of the list are more up-to-date than others.

The need for new information is continuous and assistance in providing accurate data always welcome. An inventory report form is detailed on page xi and is a guide to the information required by IUCN and ICBP to assess the international conservation status of a species.

The present list undoubtedly includes a number of errors and omissions, but it is to be hoped that these will stimulate people to send new information to:

The Species Conservation Monitoring Unit  
IUCN Conservation Monitoring Centre  
219c Huntingdon Road  
Cambridge CB3 0DL  
United Kingdom

## GUEST ESSAY

# TROPICAL DEFORESTATION AND EXTINCTION

Bruce A. Wilcox

We are entering a period of Earth's history when the global environment is changing on a scale and with an intensity that has occurred only a few times during the nearly four billion-year span of the existence of life on Earth. In the past, such changes were brought about by, for example, gradual tectonic movements in which entire continents repeatedly divided and coalesced, effecting global geographical and climatic conditions. Such changes are credited with the mass extinction of the world's shallow water marine organisms at the end of the Permian. Environmental changes also on a similar scale, but more abrupt, may have been precipitated by the impact of asteroids. One such event, producing a natural "nuclear winter," is postulated to have caused the extinction of the dinosaurs along with many lesser known organisms at the end of the Cretaceous. The present period of change, however, which will undoubtedly warrant its own geological epithet by future geologists, is being brought about neither by uncontrollable nor distant terrestrial or extraterrestrial forces, but by us.

This change is the result of the cumulative effects of over five billion human beings making a living on a planet of finite size and resources. As a consequence, particularly after a few hundred thousand years of cultural and technological advances, virtually all other forms of life are either being killed outright, slowly poisoned, or are being squeezed into smaller and smaller corners of the world - "protected areas" that are either purposely set aside, economically undesirable, inaccessible, or some combination of these.

To just grasp the dimensions of the environmental events that are unfolding, and their potential consequences, is perhaps well beyond our capacity. Yet at least some attempt to comprehend the causes and consequences is imperative if we are to avoid leaving a legacy of biotic annihilation that will outlast our own species.

But how does one measure and assess the long-term impacts of such changes as those apparently occurring on the level of global atmospheric fluxes of carbon dioxide and ozone? What about the "megaharvesting" of whales or of their resource base, krill, in the world's oceans, and the impact on the world's marine ecosystems? And, how about the capacity of both the marine and terrestrial ecosystems to absorb toxic wastes of every possible description? Finally, what about the wholesale destruction of entire ecosystems such as tropical forests and the impact on the vast number of species they support?

By all indications, each of these changes will seriously impact Earth's biota, and some may even precipitate another episode of mass extinction. The effects of one of them, destruction of the world's tropical forests, specifically has been so implicated. As their destruction is so obviously apparent and their richness so great, the consequences, as measured by the loss of thousands or millions of species in the foreseeable future is at least potentially comprehensible. A detailed look at tropical moist forests, their rate of destruction and disturbance, and how this may contribute to the global rate of endangerment and extinction, gives at least one measure of the magnitude of the current global environmental change taking place.

Broadly speaking, tropical forests include all forest formations in the tropical regions of the world, some of which are ecologically and structurally temperate. Excepting these, forests of the warm and at least seasonally humid environments still comprise an extremely heterogeneous group, including both dry and moist forests. The latter ranges from seasonally wet "monsoon forest" to true, more or less continuously wet "rain forest," which together constitute "tropical moist forest." Even these designations are insufficient and often generate confusion, some of which can be avoided by limiting general discussion of the statistics of forest disturbance to "closed broadleaved tropical forest" as designated by FAO. These, include all but a few percent of the total tropical moist cover in the world. The extent, rates, and kinds of disturbance of tropical forests have been most recently examined in detail by FAO (Lanly 1982).

On the IUCN Biogeographic Provinces map developed by Udvardy (1975) tropical moist forest (TMF) generally relates to those provinces labelled "tropical rain forest" and "tropical monsoon forest" as well as many of those labelled "tropical mixed island systems" and "tropical montane provinces with complex zonation." In theory, these once may have covered about 1600 million hectares, an amount thought to have existed prior to their extensive alteration by humans. By the mid-1970's TMF is estimated to have been reduced to approximately 1000 million hectares of intact ("primary") forest. About 400 million hectares had been "transformed" in roughly equal amounts to logged forest or shifting cultivation, and the remainder entirely lost (permanently cleared) for agriculture, grazing lands, various kinds of plantations, and other land uses.

The distinction between primary forest, disturbed forest (logged or that in shifting cultivation), and permanently cleared is critical to assessing the long-term consequences of deforestation or disturbance for two reasons. First, disturbance will not necessarily result in extinction, particularly if it is light and primary forest remains nearby. Second, given enough time, disturbed forest can regenerate and become primary forest. Unfortunately, at the present time not only is primary forest being permanently cleared, but a large fraction of that which is initially disturbed temporarily for logging or shifting cultivation is subsequently being permanently cleared. In addition, a significant fraction of the forest in the shifting cultivation cycle is effectively cleared permanently due to shortening the fallow period and exhaustion of the soil.

Key to projecting disturbance and loss of forest into the future, and in turn, endangerment and extinction of species, are estimates of the rates of transition from one category to the next. We must know, for example, the amount of primary forest transformed annually to logged forest, the amount of logged forest permanently cleared, etc. Thus, the total rate of loss or disturbance of forest and the amount in each category is computed by adding the rates of these different pathways. Rough estimates of these transition rates are provided by the FAO, filling in some of the gaps with figures reported in a study by the U. S. National Academy of Sciences (Myers 1980). Although in theory the pathways are bidirectional, increases in forest cover which counter the global trend of TMF destruction can be disregarded. The amount of increase due to regeneration or reforestation is insignificant compared to the current rates of disturbance and clearing.

The estimated worldwide rate of disturbance of primary forest and the rate of clearance of previously disturbed forest are both just under one percent annually. This does not include forest which is permanently lost directly from clearing of primary forest, or that left permanently unproductive due to over-cultivation of forest in shifting cultivation, fuelwood gathering, and numerous other factors affecting already disturbed forest that are difficult to monitor. The actual rate of permanent clearing is probably a little over one percent and combining disturbance and clearing, could be over two percent annually. This means that all TMF potentially could be disturbed or cleared in 50 years.

In fact, conservative estimates of the absolute annual amounts of forest conversion for the period from 1976 to 1980, for example, indicate that of the approximately 1200 million hectares of forest standing (primary or logged) in 1976, a minimum of 200 million hectares will have been cleared, and another 200 million will have been disturbed, by the turn of the century. This does not take into consideration the probable linkage of these rates to population growth, which is projected to continue in the tropical developing countries well into the middle of the next century. Thus, easily one-third of the forest remaining at the beginning of the last quarter of this century will have been disturbed or destroyed by the end of the century - just 12 years from now. Attempting predictions of global TMF losses beyond this is highly problematic and is quite academic at this point.

Deforestation is not of course equally distributed throughout the tropics. A number of areas are being disturbed so rapidly that virtually no undisturbed forest will remain outside the relatively few protected areas within the next few years. These so-called "hotspots" of deforestation include the moist forests of the Brazilian Atlantic coast, Columbian and Ecuadorian coasts, and those of Mexico, Central America, Australia, Indonesia, Indochina, Sri Lanka, Philippines, East and West Africa, and Madagascar.

Most of these forests will be completely disturbed in less than thirty years, and some, particularly in Central America and West Africa, are already virtually gone. The only significant blocks of relatively undisturbed forest that will be left by the middle of the next century will be in the Amazon and Zaire Basins and in northern South America (Guyana and Surinam).

Certainly, an assault of this magnitude will have profound consequences to the global pool of species, not to mention the effects on Earth's atmosphere and climate. There have been several attempts to estimate the rate of species extinction resulting from tropical deforestation. Because of the crudeness of such estimates, resulting not from ineptness but our ignorance of certain factors, these have met with everything from skepticism to outright hostility. In an attempt to produce at least a reasonably defensible assessment of the severity of the problem, several colleagues and I have been examining the approaches to making such estimates. Our goal is to at least identify the major impediments to obtaining a better assessment of the situation, if not to at least produce estimates to which levels of confidence can be attached.

The first serious impediment to estimating rates of species extinction is not knowing how many species there are in either tropical forests, or in the world as a whole. To begin with, something over 1.7 million species have been scientifically described. About 1.5 million of these are from the temperate regions, immediately suggesting that the tropics are extremely under represented due to the relative paucity of tropical collections and taxonomists working on them. We can guess at how under represented they are by looking at those groups that are relatively well studied in both regions, such as birds, mammals, and plants. In these taxa, about twice as many species occur in the tropics than temperate regions. Assuming that this ratio is constant among all taxa, there must be at least 3 million species in the tropics alone. The consensus among systematists therefore is that there are at least 3 to 5 million species in the world. Add to this, however, the consideration that perhaps only half of the species that exist in the temperate and marine habitats have been discovered and described, and the number could be closer to 10 million.

It is doubtful, however, that the 2 to 1 ratio holds for all taxa. Invertebrates in particular, which constitute more than 95% of all described species, are generally thought to be especially rich in tropical forests. Butterflies, for example, the only major insect taxa that can be considered sufficiently well known to allow a tropical-temperate comparison suggest the ratio might be closer to 10 to 1. Thus, could there be 30 million species in the tropics? This is in fact the precise number recently estimated for insects alone in tropical moist forests based on studies of the canopy insect faunas in the Neotropics (Erwin 1982). This upward revision of the number of species in the world by ten-fold certainly is unsettling and further illustrates the difficulty in estimating global extinction rates.

There are at least two additional major problems in translating projected rates of forest disturbance and clearing into rates of endangerment and extinction. The first is figuring out what proportion of the tropical forest biota is unaffected by disturbance versus that which is affected. The second is relating the amount of forest affected by disturbance or clearing to species endangerment or extinction. These are both extremely complex problems that cannot be merely waved away. They represent perhaps the most significant technical challenges to protecting tropical diversity.

I shall not attempt to address the first problem except very briefly. The few existing studies relevant to the topic indicate that the effects of disturbance can range from virtually none to massive local reductions in species richness. For example, careful selective logging can leave the species composition of forest completely intact. On the other hand, intensive shifting cultivation, in which no primary forest remains in the vicinity, may literally decimate the biota of a forest.

The second problem is solved in theory by employing the "species-area relationship." This model, which is the mainstay of island biogeography, is best described for insular systems by "Darlington's rule" which states that reduction in the size of an area by a factor of ten, reduces the number of species by two. Applying the estimates of the amount of forest remaining by the year 2000, whether primary or disturbed, to this model (in its algebraic form) suggests that six or seven percent of all TMF species in the world are at risk and about three or four percent will be extinguished outright. Adding disturbance might contribute a few more percent to these categories.

As with all ecological models, which of course are always mere abstractions of nature, application of the species-area relationship entails certain critical assumptions. In this case the critical assumption is that species richness or habitat loss, or both, are evenly distributed geographically. In fact, the tendency for smaller areas to support fewer species is only a general one; some areas are extremely rich while others are impoverished despite their size. The validity of the above prediction thus assumes that on average both rich as well as impoverished forests are cleared indiscriminately.

A way around this assumption, and in fact, avoiding the species-area model altogether, is simply to focus on biota within definable areas certain to be completely cleared or disturbed by a particular date. My colleagues and I have done this by effectively superimposing the distributions of bird and mammal species on areas within those "hotspots" listed above to determine which species' ranges are entirely encompassed. We went a step further and eliminated all but those species endemic to the region. The result indicates that about nine percent of the world's birds and mammals are at high risk. We cannot say what proportion will disappear because of the lack of more detailed data on the amount of forest remaining in different disturbed states, and what fraction of the avian and mammalian faunas are affected by each state. While certainly only a fraction of the nine percent will go extinct, this estimate is only for a limited area of the total TMF.

We can attempt yet one more approach to estimating global TMF endangerment and extinction, which can serve as an independent check. Raven (personal communication) estimates that about 120,000 species of flowering plants, out of a world total of 250,000, occur in TMF regions that are certain to be either entirely cleared or disturbed in the next thirty years -- essentially most of the same forest areas listed above. In fact, at least a third of these species occur in the forests of only three countries: Columbia, Ecuador, and Peru. Gentry (1986) reports the recent clearing of a single ridge top in western Ecuador that resulted in the disappearance of as many as ninety plant species known only from that location -- an event that is occurring repeatedly.

Raven further suggests that flowering plants constitute about 1 in 10 to 1 in 20 of all species, assuming there are 5 to 10 million. So if one also considers that regions of highest plant diversity tend also to reflect the highest species diversity in general, on the order of 2.4 to 4.8 million species occur in these areas. If one further assumes that all but ten percent of the forest area remains reasonably undisturbed, then, following Darlington's rule, and acknowledging the critical assumptions we are making in applying the species-area model, half of these species will ultimately go extinct. Refining the calculation to consider the fraction of species that are on average immediately affected, roughly 30% will disappear during this time, which amounts to three-quarters of a million species, or 15% to 30% of all species.

Taken together, the three different approaches for predicting rates of global TMF extinction indicate that at least several hundred vertebrates, hundreds of thousands of plants, and over a million species of insects are endangered and will go extinct within the next three to five decades.

The argument is frequently made that extinction is natural and, as Darwin pointed out, unless the numbers go on increasing indefinitely, we must assume that extinction occurs at a rate matching that of the appearance of new species. Darwin's point was of course with reference to evolutionary time. Fossil evidence in fact confirms that 99% of the species that ever existed are now extinct. Our venue is that of the span of an individual human lifetime, since in fact, the extinctions just described will take place while most of us are still living.

Even the previous mass extinction episodes were spread out over a much longer time period, at least millenniums, but upwards of millions of years. Actually, the present onslaught may well have begun with the mass extinction of Pleistocene mammals followed by a second prehistoric wave of human-caused extinctions occurring on many of the world's islands.

Today, islands remain the historic centers of endangerment and extinction, where, for example over 90% of the recorded avian extinctions have occurred. Until the present, however, the recorded extinction rate for higher vertebrates has been kept at a respectable 151 species over the past 400 years. This compares to a background rate, based on fossil evidence, of about one species every 50 to 100 years. When the tropical moist forest tallies start coming in, the documented extinctions will undoubtedly take another order of magnitude jump over the historic rate. Tragically, however, for every species listed as endangered or extinct at least a hundred more will probably disappear unrecorded.

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## INVENTORY REPORT FORM

Report to be mailed to:  
SCMU, IUCN Conservation Monitoring Centre  
219(c) Huntingdon Rd, Cambridge, CB3 0DL, U.K.

1. Country

2. Date

3. Reporter

Name:

Address:

4. Taxon

Scientific Name:

Common Name:

5. Distribution

Present:

Former:

If possible, please include a map. Is present range preferred or enforced habitat?

6. Population

Estimated numbers in the wild. Indicate date of estimate and describe method of estimation. Are numbers increasing, decreasing or stable?

7. Habitat and Ecology

Biome type. Elevation range. Brief notes about social structure, feeding habits and diet, reproduction (gestation, breeding season, number of young, age of sexual maturation), longevity etc.

8. Scientific interest and potential value

Use in scientific or medical research; commercial value in trade or local economy.

9. Threats to Survival

Eg. habitat destruction, over-exploitation, hybridization, natural disasters, competition for food.

10. Conservation Measures Taken

Legal measures (international conventions, national laws); is law enforced? Protected areas - does it occur in national parks, reserves etc.? If so, please list. Management programmes or research programmes in progress.

11. Conservation Measures Proposed

Same as for 10, but measures that are needed for the conservation of the taxon.

12. Captive Breeding

Numbers in captivity. Does it breed readily in captivity? Where and when?

13. Remarks

Reference citations for description of animal. Comments about related taxa. If the above information concerns a subspecies then brief information should be given about the distribution and status of the species as a whole. Special acknowledgements etc.

14. References

Can be published papers, unpublished manuscripts, or references to correspondence (cited as *In litt.*).

## DOCUMENTS ON WHICH THE IUCN RED LIST IS BASED

In addition, recommendations and documentation for listings have been provided by the IUCN/SSC Specialist Groups, and by ICBP.

The asterisk indicates books currently available from IUCN.

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## TAXONOMY

The systems of classification and nomenclature principally follow the undermentioned authors.

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## IUCN THREATENED SPECIES CATEGORIES

Species identified as threatened by IUCN are assigned a category indicating the degree of threat. Definitions are as follows:

### **EXTINCT (Ex)**

Species not definitely located in the wild during the past 50 years (criterion as used by the Convention on International Trade in Endangered Species of Wild Fauna and Flora).

N.B. On a few occasions, the category Ex? has been assigned; this denotes that it is virtually certain that the taxon has recently become extinct.

### **ENDANGERED (E)**

Taxa in danger of extinction and whose survival is unlikely if the causal factors continue operating.

Included are taxa whose numbers have been reduced to a critical level or whose habitats have been so drastically reduced that they are deemed to be in immediate danger of extinction. Also included are taxa that may be extinct but have definitely been seen in the wild in the past 50 years.

### **VULNERABLE (V)**

Taxa believed likely to move into the 'Endangered' category in the near future if the causal factors continue operating.

Included are taxa of which most or all the populations are decreasing because of over-exploitation, extensive destruction of habitat or other environmental disturbance; taxa with populations that have been seriously depleted and whose ultimate security has not yet been assured; and taxa with populations that are still abundant but are under threat from severe adverse factors throughout their range.

N.B. In practice, 'Endangered' and 'Vulnerable' categories may include, temporarily, taxa whose populations are beginning to recover as a result of remedial action, but whose recovery is insufficient to justify their transfer to another category.

### **RARE (R)**

Taxa with small world populations that are not at present 'Endangered' or 'Vulnerable', but are at risk.

These taxa are usually localised within restricted geographical areas or habitats or are thinly scattered over a more extensive range.

### **INDETERMINATE (I)**

Taxa *known* to be 'Endangered', 'Vulnerable' or 'Rare' but where there is not enough information to say which of the three categories is appropriate.

## INSUFFICIENTLY KNOWN (K)

Taxa that are *suspected* but not definitely known to belong to any of the above categories, because of lack of information.

**K\*** Taxa which are currently under review by ICBP and which are likely to be designated a category in the near future.

## THREATENED (T)

Threatened is a general term to denote species which are 'Endangered', 'Vulnerable', 'Rare', 'Indeterminate', or 'Insufficiently Known' and should not be confused with the use of the same term by the U.S. Office of Endangered Species. In this volume it is used to identify taxa comprised of several sub-taxa which have differing status categories.

## COMMERCIALLY THREATENED (CT)

Taxa not currently threatened with extinction, but most or all of whose populations are threatened as a sustainable commercial resource, or will become so, unless their exploitation is regulated.

This category applies only to taxa whose populations are assumed to be relatively large.

N.B. In practise, this category has only been used for marine species of commercial importance that are being overfished in several parts of their ranges.

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## ABBREVIATIONS

Arch.	Archipelago
Eq. Guinea	Equatorial Guinea
F.R.G.	Federal Republic of Germany
I.	Island
Is	Islands
O.	Ocean
sp.	Unnamed species
U.A.E.	United Arab Emirates
U.K.	United Kingdom
U.S.A.	United States of America
U.S.S.R.	Union of Soviet Socialist Republics
[]	Former Distribution
*	An important, introduced population



**1988 IUCN RED LIST  
OF THREATENED ANIMALS**

**MAMMALS**

## Phylum CHORDATA

## Class MAMMALIA

## Order MONOTREMATA

## Family Tachyglossidae

*Zaglossus bruijnii*

Long-beaked Echidna

V New Guinea

## Order MARSUPIALIA

## Family Macropodidae

*Bettongia lesueur*

Burrowing Bettong

R Australia

*Bettongia penicillata*

Brush-tailed Bettong

E Australia

*Caloprymnus campestris*

Desert Rat-kangaroo

I Australia

*Dendrolagus dorianus notatus*

Doria's Tree-kangaroo

V New Guinea

*Dendrolagus goodfellowi shawmayeri*

Goodfellow's Tree-kangaroo

V Papua New Guinea

*Dorcopsis airata*

Black Dorcopsis Wallaby

R Papua New Guinea

*Dorcopsulus macleayi*

Papuan Dorcopsis

R Papua New Guinea

*Lagorchestes asomatus*

Central Hare-wallaby

Ex [Australia]

*Lagorchestes hirsutus*

Rufous Hare-wallaby

R Australia

*Lagorchestes leporides*

Eastern Hare-wallaby

Ex [Australia]

*Lagostrophus fasciatus*

Banded Hare-wallaby

R Australia

*Macropus greyi*

Toolache Wallaby

Ex [Australia]

*Onychogalea fraenata*

Bridled Nailtail Wallaby

E Australia

*Onychogalea lunata*

Crescent Nailtail Wallaby

Ex [Australia]

*Petrogale persephone*

Proserpine Rock-wallaby

R Australia

*Potorous tongipes*

Long-footed Potoroo

I Australia

*Potorous platyops*

Broad-faced Potoroo

Ex [Australia]

## Family Phalangeridae

*Phalanger lullulae*

Woodlark Island Cuscus

E Woodlark I.(Papua New Guinea)

*Phalanger rufoniger*

Black-spotted Cuscus

R New Guinea

*Phalanger pernixtio*

Cuscus

R Papua New Guinea

*Phalanger vestitus*

Cuscus

R New Guinea

## Family Petauridae

*Gymnobelideus leadbeateri*

Leadbeater's Possum

V Australia

## Family Vombatidae

*Lasiorhinus krefftii*

Northern Hairy-nosed Wombat

E Australia

**Family Peramelidae**

<i>Chaeropus ecaudatus</i>	Pig-footed Bandicoot	Ex	[Australia]
<i>Echymipera clara</i>	White-lipped Bandicoot	R	New Guinea
<i>Perameles bougainville</i>	Western Barred Bandicoot	R	Australia
<i>Perameles eremiana</i>	Desert Bandicoot	Ex	[Australia]

**Family Thylacomyidae**

<i>Macrotis lagotis</i>	Greater Bilby	E	Australia
<i>Macrotis leucura</i>	Lesser Bilby	Ex	[Australia]

**Family Dasyuridae**

<i>Antechinus apicalis</i>	Dibbler	I	Australia
<i>Phascogale calura</i>	Red-tailed Phascogale	I	Australia
<i>Sminthopsis douglasi</i>	Julia Creek Dunnart	I	Australia
<i>Sminthopsis longicaudata</i>	Long-tailed Dunnart	K	Australia
<i>Sminthopsis psammophila</i>	Sandhill Dunnart	K	Australia

**Family Myrmecobiidae**

<i>Myrmecobius fasciatus</i>	Numbat	E	Australia
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**Family Thylacinidae**

<i>Thylacinus cynocephalus</i>	Thylacine	Ex	[Australia]
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**Order INSECTIVORA****Family Solenodontidae**

<i>Solenodon cubanus</i>	Cuban Solenodon	E	Cuba
<i>Solenodon paradoxus</i>	Haitian Solenodon	E	Hispaniola

**Family Tenrecidae**

<i>Geogale aurita aurita</i>	Large-eared Tenrec	K	Madagascar
<i>Geogale aurita orientalis</i>	Eastern Large-eared Tenrec	I	Madagascar
<i>Limnogale mergulus</i>	Web-footed Tenrec	V	Madagascar
<i>Microgale brevicaudata</i>		K	Madagascar
<i>Microgale crassipes</i>		K	Madagascar
<i>Microgale drouhardi</i>		K	Madagascar
<i>Microgale longicaudata</i>		K	Madagascar
<i>Microgale longirostris</i>		K	Madagascar
<i>Microgale majori</i>		K	Madagascar
<i>Microgale melanorrhachis</i>		K	Madagascar
<i>Microgale occidentalis</i>		I	Madagascar

<i>Microgale parvula</i>	K	Madagascar
<i>Microgale principula</i>	K	Madagascar
<i>Microgale prolixicaudata</i>	K	Madagascar
<i>Microgale sorella</i>	K	Madagascar
<i>Microgale taiva</i>	K	Madagascar
<i>Microgale thomasi</i>	K	Madagascar
<i>Microgale (Leptogale) gracilis</i>	K	Madagascar
<b>Family Chrysochloridae</b>		
<i>Amblysomus gunningi</i>	K	South Africa
<i>Amblysomus julianae</i>	R	South Africa
<i>Chlorotalpa duthiae</i>	R	South Africa
<i>Chrysochloris visagiei</i>	K	South Africa
<i>Chrysothalax trevelyani</i>	E	South Africa
<i>Chrysothalax villosus</i>	K	South Africa
<i>Cryptochloris wintoni</i>	K	South Africa
<i>Cryptochloris zyli</i>	K	South Africa
<b>Family Erinaceidae</b>		
<i>Podogymnura truei</i>	V	Philippines
<b>Family Soricidae</b>		
<i>Crocidura maquassiensis</i>	R	South Africa, Zimbabwe
<i>Myosorex longicaudatus</i>	R	South Africa
<b>Family Talpidae</b>		
<i>Desmana moschata</i>	V	U.S.S.R.
<i>Galemys pyrenaicus</i>	V	France, Portugal, Spain
<b>Order CHIROPTERA</b>		
<b>Family Pteropodidae</b>		
<i>Acerodon lucifer</i>	Ex	[Panay I.(Philippines)]
<i>Alionycteris paucidentata</i>	K	Mindanao (Philippines)
<i>Aproteles bulmeri</i>	K	E.New Guinea
<i>Dobsonia exoleta chapmani</i>	Ex?	[Negros I.(Philippines)]
<i>Dobsonia minor</i>	K	Irian Jaya
<i>Dyacopterus brooksi</i>	K	Sumatra
<i>Dyacopterus spadicens</i>	K	Malaya, Borneo
<i>Latidens salimalii</i>	K	S.India

<i>Megaerops kusnotoi</i>	Javan Tail-less Fruit Bat	K	Java
<i>Nyctimene rabori</i>	Philippines Tube-nosed Fruit Bat	E	Negros I. (Philippines)
<i>Otopteropus cartilagonodus</i>		K	Luzon (Philippines)
<i>Pteropus insularis</i>	Carolines Flying Fox	I	C.Caroline Is
<i>Pteropus livingstonii</i>	Comoro Black Flying Fox	E	Comoro Is
<i>Pteropus macrootis</i>	Big-eared Flying Fox	I	New Guinea, Aru Is
<i>Pteropus mariannus</i>	Marianas Flying Fox	V	Mariana Is, Palau Is, Caroline Is, Ryukyu Is (Japan)
<i>Pteropus molossinus</i>		I	E.Caroline Is
<i>Pteropus niger</i>	Mauritian Flying Fox	V	Mauritius
<i>Pteropus phaeocephalus</i>		I	Truck Is (C.Caroline Is)
<i>Pteropus pilosus</i>	Palau Flying Fox	Ex	[Palau I.]
<i>Pteropus rodricensis</i>	Rodrigues Flying Fox	E	Rodrigues
<i>Pteropus samoensis</i>	Samoan Flying Fox	E	Samoa, Fiji Is
<i>Pteropus seychellensis aldabrensis</i>	Seychelles Flying Fox	V	Aldabra I. (Seychelles)
<i>Pteropus subniger</i>		Ex	[Mauritius, Reunion]
<i>Pteropus tokudae</i>	Guam Flying Fox	Ex	[Guam]
<i>Pteropus tonganus</i>	Insular Flying Fox	I	N.E.New Guinea, Samoa, Cook Is
<i>Pteropus voeltzkowi</i>	Pemba Flying Fox	V	Pemba I.(Tanzania)
<b>Family Emballonuridae</b>			
<i>Emballonura furax</i>	Greater Sheath-tailed Bat	K	New Guinea
<i>Emballonura raffrayana</i>	Raffray's Sheath-tailed Bat	K	Seram I., New Guinea, Solomons
<i>Coleura seychellensis</i>	Seychelles Sheath-tailed Bat	E	Seychelles
<b>Family Craseonycteridae</b>			
<i>Craseonycteris thonglongyai</i>	Kitti's Hog-nosed Bat	R	Thailand
<b>Family Megadermatidae</b>			
<i>Macroderma gigas</i>	Ghost Bat	V	N.Australia
<b>Family Hipposideridae</b>			
<i>Hipposideros papua</i>	Geelvinck Bay Leaf-nosed Bat	R	Biak I.(Irian Jaya)
<i>Hipposideros ridleyi</i>	Ridley's Leaf-nosed Bat	I	Singapore, Pen. Malaysia, Sabah
<i>Rhinonicteris auranta</i>	Orange Leaf-nosed Bat	K	N.Australia
<b>Family Phyllostomidae</b>			
<i>Leptonycteris nivalis</i>	Mexican Long-nosed Bat	V	S.U.S.A. to Guatemala
<i>Leptonycteris verbabuena</i>		V	S.U.S.A. to El Salvador

<i>Phyllonycteris aphylla</i>	Jamaican Flower Bat	K	Jamaica	Mammals
<i>Phyllonycteris major</i>	Puerto Rican Flower Bat	Ex?	[Puerto Rico]	
<i>Phyllonycteris poeyi</i>	Cuban Flower Bat	K	Cuba, Hispaniola	
<b>Family Myzopodidae</b>				
<i>Myzopoda aurita</i>	Sucker-footed Bat	K	Madagascar	
<b>Family Vespertilionidae</b>				
<i>Glischropus javanus</i>	Javan Thick-thumbed Bat	K	Java	
<i>Kerivoula africana</i>	Tanzanian Woolly Bat	Ex?	[Tanzania]	
<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	I	Hawaii (U.S.A.)	
<i>Myotis bartelsii</i>	Bartel's Myotis	K	Java	
<i>Myotis capaccinii</i>	Long-fingered Bat	V	Europe, S.Asia Minor, N.W.Africa	
<i>Myotis dasycneme</i>	Pond Bat	K	Europe to W.Siberia	
<i>Myotis grisescens</i>	Grey Bat	E	U.S.A.	
<i>Myotis hermani</i>	Herman's Myotis	R	N.W.Sumatra	
<i>Myotis myotis</i>	Mouse-eared Bat	K	Europe to Ukraine	
<i>Myotis sodalis</i>	Indiana Bat	V	U.S.A.	
<i>Plecotus townsendii</i>	Townsend's Big-eared Bat	I	U.S.A.	
<b>Family Mystacinidae</b>				
<i>Mystacina robusta</i>	New Zealand Lesser Short-tailed Bat	Ex	[New Zealand]	
<i>Mystacina tuberculata</i>	New Zealand Greater Short-tailed Bat	V	New Zealand	
<b>Family Molossidae</b>				
<i>Otomops formosus</i>	Javan Mastiff Bat	K	Java	
<b>Order PRIMATES</b>				
<b>Family Lemuridae</b>				
<i>Hapalemur griseus</i>	Grey Gentle Lemur	K	Madagascar	
<i>Hapalemur simus</i>	Broad-nosed Gentle Lemur	E	Madagascar	
<i>Hapalemur sp. nova</i>	Golden Gentle Lemur	I	Madagascar	
<i>Lemur catta</i>	Ring-tailed Lemur	K	Madagascar	
<i>Lemur coronatus</i>	Crowned Lemur	K	Madagascar	
<i>Lemur macaco flavifrons</i>	Sclater's Lemur	E	Madagascar	
<i>Lemur macaco macaco</i>	Black Lemur	V	Madagascar	
<i>Lemur mongoz</i>	Mongoose Lemur	V	Madagascar, Comoro Is	
<i>Lemur rubriventer</i>	Red-bellied Lemur	I	Madagascar	
<i>Lepilemur dorsalis</i>	Grey-backed Sportive Lemur	K	Madagascar	

*Lepilemur edwardsi* Milne-Edwards' Sportive Lemur K Madagascar  
*Lepilemur leucopus* White-footed Sportive Lemur K Madagascar  
*Lepilemur microdon* Microdon (?) Sportive Lemur K Madagascar  
*Lepilemur mustelinus* Weasel Lemur K Madagascar  
*Lepilemur ruficaudatus* Red-tailed Sportive Lemur K Madagascar  
*Lepilemur septentrionalis* Northern Sportive Lemur K Madagascar  
*Yarecia variegata* Ruffed Lemur I Madagascar

#### Family Cheirogaleidae

*Allocebus trichotus* Hairy-eared Dwarf Lemur E Madagascar  
*Microcebus coquereli* Coquerel's Dwarf Lemur R Madagascar  
*Phaner furcifer* Fork-marked Lemur K Madagascar

#### Family Indridae

*Avahi laniger* Woolly Lemur K Madagascar  
*Indri indri* Indris E Madagascar  
*Propithecus diadema* Diademed Sifaka V Madagascar  
*Propithecus verreauxi* Verreaux's Sifaka K Madagascar

#### Family Daubentoniidae

*Daubentonia madagascariensis* Aye-aye E Madagascar

#### Family Lorisidae

*Arctocebus calabarensis* Angwantibo K West Africa  
*Nycticebus pygmaeus* Pygmy Loris V Indochina

#### Family Galagidae

*Galago thomasi* Thomas's Bushbaby K East Africa  
*Galago zanzibarius* Zanzibar Bushbaby K East Africa

#### Family Tarsiidae

*Tarsius syrichta* Philippine Tarsier E Philippines  
*Tarsius pumilus* Lesser Spectral Tarsier I Sulawesi

#### Family Cebidae

*Alouatta fusca* Brown Howler Monkey I Bolivia, Brazil  
*Alouatta villosa* Guatemalan Black Howler Monkey I Belize, Guatemala, Mexico  
*Ateles belzebuth* Long-haired Spider Monkey V South America  
*Ateles fusciceps* Brown-headed Spider Monkey I Colombia, Ecuador, Panama  
*Ateles geoffroyi* Geoffroy's Spider Monkey V Central America, Mexico

<i>Ateles paniscus</i>	Black Spider Monkey	V	South America
<i>Brachyteles arachnoides</i>	Woolly Spider Monkey	E	Brazil
<i>Cacajao calvus</i>	Red & White Uakari	V	Brazil, Colombia, Peru
<i>Cacajao melanocephalus</i>	Black-headed Uakari	V	Brazil, Colombia, Venezuela
<i>Callicebus personatus</i>	Masked Titi	V	Brazil
<i>Chiropotes albinasus</i>	White-nosed Saki	V	Brazil
<i>Chiropotes satanas satanas</i>	Southern Bearded Saki	E	Brazil
<i>Lagothrix flavicauda</i>	Yellow-tailed Woolly Monkey	E	Ecuador, Peru
<i>Lagothrix lagotricha</i>	Woolly Monkey	V	South America
<i>Saimiri oerstedii</i>	Central American Squirrel Monkey	E	Costa Rica, Panama
<b>Family Callitrichidae</b>			
<i>Callimico goeldii</i>	Goeldi's Marmoset	R	South America
<i>Callithrix argentata leucippe</i>	White Marmoset	V	Brazil
<i>Callithrix aurita</i>	Buffy-tufted-ear Marmoset	E	Brazil
<i>Callithrix flaviceps</i>	Buffy-headed Marmoset	E	Brazil
<i>Callithrix humeralifer</i>	Tassel-eared Marmoset	V	Brazil
<i>Leontopithecus rosalia</i>	Golden Lion Tamarin	E	Brazil
<i>Leontopithecus chrysomelas</i>	Golden-headed Lion Tamarin	E	Brazil
<i>Leontopithecus chrysopygus</i>	Golden-rumped Lion Tamarin	E	Brazil
<i>Saguinus bicolor</i>	Bare-faced Tamarin	I	Brazil, Peru
<i>Saguinus imperator</i>	Emperor Tamarin	I	Bolivia, Brazil, Peru
<i>Saguinus leucopus</i>	White-footed Tamarin	V	Colombia
<i>Saguinus oedipus oedipus</i>	Cotton-top Tamarin	E	Colombia
<b>Family Cercopithecidae</b>			
<i>Allenopithecus nigroviridis</i>	Allen's Swamp Monkey	K	Congo, Zaire
<i>Cercocebus aterrimus</i>	Black Mangabey	K	N. Angola, C. Zaire
<i>Cercocebus galeritus</i>	Crested Mangabey	V	Kenya, Tanzania
<i>Cercocebus galeritus galeritus</i>	Tana River Mangabey	E	Kenya
<i>Cercocebus torquatus</i>	Collared Mangabey	V	West Africa
<i>Cercopithecus diana</i>	Diana Monkey	V	West Africa
<i>Cercopithecus erythrogaster</i>	White-throated Guenon	E	Benin, Nigeria
<i>Cercopithecus erythrotis</i>	Russet-eared Guenon	E	Cameroon, Bioko, Nigeria
<i>Cercopithecus hamlyni</i>	Owl-faced Guenon	V	Rwanda, Uganda, Zaire
<i>Cercopithecus lhoesti</i>	L'hoest's Monkey	V	Burundi, Rwanda, Uganda, Zaire
<i>Cercopithecus preussi</i>	Preuss's Guenon	E	Cameroon, Bioko, Nigeria
<i>Cercopithecus salongo</i>	Salongo Guenon	K	Zaire



<i>Cercopithecus solatus</i>	Sun-tailed Guenon	V	Gabon
<i>Colobus satanas</i>	Black Colobus	E	Cameroon, Congo, Eq. Guinea, Gabon West Africa
<i>Procolobus [badius] badius</i>	Western Red Colobus	V	Ghana, Ivory Coast
<i>Procolobus [b.] badius waldroni</i>	Miss Waldron's Bay Colobus	E	Congo, Bioko, Cameroon
<i>Procolobus [badius] pennanti</i>	Pennant's Red Colobus	V	East & C.Africa
<i>Procolobus [badius] rufomitratus</i>	Peter's Red Colobus	E	Kenya
<i>Procolobus [b.] badius rufomitratus</i>	Tana River Red Colobus	E	Tanzania
<i>Procolobus [badius] gordonorum</i>	Uhehe Red Colobus	E	Zanzibar
<i>Procolobus [badius] kirkii</i>	Zanzibar Red Colobus	V	West Africa
<i>Procolobus verus</i>	Olive Colobus	R	Ethiopia, Somalia, S.Arabia
<i>Papio hamadryas</i>	Hamadryas Baboon	E	Cameroon, Bioko, Nigeria
<i>Mandrillus leucophaeus</i>	Drill	V	Cameroon, Congo, Eq. Guinea, Gabon
<i>Mandrillus sphinx</i>	Mandrill	R	Ethiopia
<i>Theropithecus gelada</i>	Gelada	K	Sulawesi
<i>Macaca brunnescens</i>	Muna-Butung Macaque	V	Taiwan
<i>Macaca cyclopsis</i>	Taiwan Macaque	V	Sulawesi
<i>Macaca hecki</i>	Heck's Macaque	V	Sulawesi
<i>Macaca maura</i>	Moor Macaque	E	Mentawai Is (Indonesia)
<i>Macaca pagensis</i>	Mentawai Macaque	E	S. India
<i>Macaca silenus</i>	Lion-tailed Macaque	V	Algeria, Gibraltar*, Morocco
<i>Macaca sylvanus</i>	Barbary Macaque	K	China
<i>Macaca thibetana</i>	Tibetan Macaque	V	Borneo
<i>Nasalis larvatus</i>	Proboscis Monkey	E	Java
<i>Presbytis comata</i>	Javan Leaf Monkey	E	Mentawai Is. (Indonesia)
<i>Presbytis potenziani</i>	Mentawai Leaf Monkey	E	Indochina, S.W.China
<i>Trachypithecus francoisi</i>	Tonkin Leaf Monkey	E	S.China
<i>Trachypithecus leucocephalus</i>	White-headed Black Leaf Monkey	R	Bhutan, India
<i>Trachypithecus geei</i>	Golden Leaf Monkey	E	S. India
<i>Trachypithecus johnii</i>	Nilgiri Leaf Monkey	E	C.Vietnam, E.C.Laos,
<i>Pygathrix nemaeus</i>	Red-shanked Douc Monkey	E	S.Vietnam, S.Laos, E.Cambodia
<i>Pygathrix nigripes</i>	Black-shanked Douc Monkey	E	N. Vietnam
<i>Rhinopithecus avunculus</i>	Tonkin Snub-nosed Monkey	E	China
<i>Rhinopithecus bieti</i>	Yunnan Snub-nosed Monkey	E	China
<i>Rhinopithecus brelichi</i>	Guizhou Snub-nosed Monkey	V	China
<i>Rhinopithecus roxellanae</i>	Sichuan Golden Snub-nosed Monkey	E	China
<i>Simias concolor</i>	Pig-tailed Langur	E	Mentawai Is (Indonesia)

(\**Trachypithecus* now used for many previous *Presbytis*\*)

**Family Hylobatidae**

*Hylobates concolor*  
*Hylobates hoolock*  
*Hylobates klossi*  
*Hylobates moloch*  
*Hylobates pileatus*

V China, Indochina  
 V Assam, Burma, Yunnan  
 E Mentawai Is (Indonesia)  
 E Java  
 V Indochina, Thailand

**Family Pongidae**

*Gorilla gorilla*  
*Gorilla gorilla beringei*  
*Gorilla gorilla graueri*  
*Pan paniscus*  
*Pan troglodytes*  
*Pan troglodytes verus*  
*Pongo pygmaeus*

V Equatorial Africa  
 E Rwanda, Uganda, Zaire  
 E E. Zaire  
 V Zaire  
 V Equatorial Africa  
 E West Africa  
 E Borneo, Sumatra

**Order EDENTATA****Family Myrmecophagidae**

*Myrmecophaga tridactyla*

V Central & South America

**Family Bradypodidae**

*Bradypus torquatus*

E Brazil

**Family Dasypodidae**

*Chlamyphorus retusus*  
*Chlamyphorus truncatus*  
*Priodontes giganteus*  
*Tolypeutes tricinctus*

K Argentina, Bolivia, Paraguay  
 K Argentina  
 V South America  
 I Brazil

**Order LAGOMORPHA****Family Ochotonidae**

*Prolagus sardus*

Ex [Sardinia, Corsica]

**Family Leporidae**

*Bunolagus monticularis*  
*Caprolagus hispidus*  
*Lepus flavigularis*  
*Nesolagus netscheri*  
*Pentalagus furnessi*  
*Romerolagus diazi*

E South Africa  
 E Himalayan foothills  
 E Mexico  
 I Sumatra  
 E Ryukyu Is (Japan)  
 E Mexico

Riverine Rabbit

Hispid Hare

Tehuantepec Hare

Sumatran Short-eared Rabbit

Amami Rabbit

Volcano Rabbit

## Order RODENTIA

### Family Aplodontidae

- Aplodontia rufa nigra*  
*Aplodontia rufa phaea*

Point Arena Mountain Beaver  
Point Reyes Mountain Beaver

I California (U.S.A.)  
I California (U.S.A.)

### Family Sciuridae

- Cynomys parvidens*  
*Marmota Vancouverensis*  
*Marmota menzbieri*  
*Sciurus niger cinereus*  
*Syntheosciurus brochus*

Utah Prairie Dog  
Vancouver Island Marmot  
Menzbier's Marmot  
Delmarva Fox Squirrel  
Mountain Squirrel

V U.S.A.  
E Canada  
V U.S.S.R.  
E U.S.A.  
K Costa Rica, Panama

### Family Heteromyidae

- Dipodomys elator*  
*Dipodomys gravipes*  
*Dipodomys heermanni morroensis*  
*Dipodomys ingens*  
*Dipodomys nitratoides exilis*  
*Dipodomys nitratoides nitratoides*  
*Dipodomys stephensi*  
*Perognathus alticola*  
*Perognathus inornatus psammophilus*  
*Perognathus longimembris brevinasus*

Texas Kangaroo Rat  
San Quintin Kangaroo Rat  
Morro Bay Kangaroo Rat  
Giant Kangaroo Rat  
Fresno Kangaroo Rat  
Tipton Kangaroo Rat  
Stephens Kangaroo Rat  
White-eared Pocket Mouse  
Salinas Pocket Mouse  
Los Angeles Pocket Mouse

R Texas (U.S.A.)  
E Baja California (Mexico)  
E California (U.S.A.)  
I California (U.S.A.)  
E California (U.S.A.)  
E California (U.S.A.)  
I California (U.S.A.)  
V California (U.S.A.)  
E California (U.S.A.)  
E California (U.S.A.)

### Family Cricetidae

- Neotoma fuscipes riparia*  
*Pitymys bavaricus*  
*Reithrodontomys megalotis limicola*  
*Reithrodontomys raviventris*  
*Sigmodon arizonae plenus*  
*Zapus trinotatus orarius*

San Joaquin Valley Woodrat  
Bavarian Pine Vole  
Southern Marsh Harvest Mouse  
Salt-marsh Harvest Mouse  
Colorado River Cotton Rat  
Point Reyes Jumping Mouse

V California (U.S.A.)  
Ex [F.R.G.]  
V California (U.S.A.)  
E California (U.S.A.)  
E California (U.S.A.)  
I California (U.S.A.)

### Family Muridae

- Batomys grantii*  
*Conilurus albigipes*  
*Leporillus apicalis*  
*Leporillus conditor*  
*Microtus breweri*  
*Microtus californicus scirpensis*

Luzon Forest Rat  
Rabbit-eared Tree-rat  
Lesser Stick-nest Rat  
Greater Stick-nest Rat  
Beach Vole  
Amargosa Vole

I Philippines  
Ex [Australia]  
Ex [Australia]  
R Australia  
R U.S.A.  
E California (U.S.A.)

<i>Notomys amplus</i>	Short-tailed Hopping-mouse	Ex	[Australia]
<i>Notomys aquilo</i>	Northern Hopping-mouse	K	Australia
<i>Notomys fuscus</i>	Dusky Hopping-mouse	I	Australia
<i>Notomys longicaudatus</i>	Long-tailed Hopping-mouse	Ex	[Australia]
<i>Notomys macrotis</i>	Big-eared Hopping-mouse	Ex	[Australia]
<i>Notomys mordax</i>	Darling Downs Hopping-mouse	Ex	[Australia]
<i>Oryzomys argentatus</i>	Silver Rice Rat	I	U.S.A.
<i>Pseudomys fieldi</i>	Alice Springs Mouse	Ex	[Australia]
<i>Pseudomys oralis</i>	Hastings River Mouse	I	Australia
<i>Pseudomys praeconis</i>	Shark Bay Mouse	R	Australia
<i>Tokudaia osimensis muenninki</i>	Ryukyu Spiny Rat	I	Ryukyu Is
<i>Xeromys myoides</i>	False Water-rat	K	Australia
<i>Zyzomys pedunculatus</i>	Central Rock-rat	I	Australia
<b>Family Erithizontidae</b>			
<i>Chaetomys subspinosus</i>	Thin-spined Porcupine	I	Brazil
<b>Family Chinchillidae</b>			
<i>Chinchilla brevicaudata</i>	Short-tailed Chinchilla	I	Andes
<i>Chinchilla lanigera</i>	Long-tailed Chinchilla	I	Chile
<b>Family Capromyidae</b>			
<i>Capromys angelcabrerai</i>	Cabrera's Hutia	E	Cuba
<i>Capromys auritus</i>	Large-eared Hutia	E	Cuba
<i>Capromys garridoi</i>	Garrido's Hutia	I	Cuba
<i>Capromys melanurus</i>	Bushy-tailed Hutia	I	Cuba
<i>Capromys nanus</i>	Dwarf Hutia	E	Cuba
<i>Capromys sanfelipensis</i>	Little Earth Hutia	E	Cuba
<i>Geocapromys brownii</i>	Jamaican Hutia	I	Jamaica
<i>Geocapromys ingrahami</i>	Bahamian Hutia	R	Bahamas
<i>Plagiodontia aedium</i>	Hispaniolan Hutia	I	Hispaniola
<b>Order CETACEA</b>			
<b>Family Iniidae</b>			
<i>Inia geoffrensis</i>	Boto, Amazon River Dolphin	V	South America
<b>Family Platanistidae</b>			
<i>Platanista gangetica</i>	Ganges River Dolphin	V	India, Bangladesh, Nepal, Bhutan
<i>Platanista minor</i>	Indus River Dolphin	E	Pakistan

<b>Family Pontoporiidae</b>			
<i>Lipotes vexillifer</i>	Baiji, Yangtze River Dolphin	E	Yangtze R. (China)
<i>Pontoporia blainvillei</i>	Franciscana, La Plata Dolphin	K	Brazil, Uruguay, Argentina
<b>Family Delphinidae</b>			
<i>Cephalorhynchus commersonii</i>	Commerson's Dolphin	K	Coastal South Atlantic
<i>Cephalorhynchus eutropia</i>	Black Dolphin	K	Coastal Chile
<i>Cephalorhynchus heavisidii</i>	Heaviside's Dolphin	K	Coastal South Africa & Namibia
<i>Cephalorhynchus hectori</i>	Hector's Dolphin	K	Coastal New Zealand
<b>Family Monodontidae</b>			
<i>Delphinapterus leucas</i>	White Whale	K	Arctic & sub-Arctic Ocean
<i>Monodon monoceros</i>	Narwhal	K	Arctic Ocean
<i>Orcaella brevirostris</i>	Irrawaddy Dolphin	K	Rivers and coasts from Bay of Bengal to N.Australia
<b>Family Phocoenidae</b>			
<i>Phocoena phocoena</i>	Harbour Porpoise	K	Coastal waters of N.Hemisphere
<i>Phocoena sinus</i>	Vaquita	V	Gulf of California (Mexico)
<b>Family Ziphiidae</b>			
<i>Hyperoodon ampullatus</i>	Northern Bottlenose Whale	V	North Atlantic
<b>Family Balaenopteridae</b>			
<i>Balaenoptera musculus</i>	Blue Whale	E	All Oceans
<i>Balaenoptera physalus</i>	Fin Whale	V	All Oceans
<i>Megaptera novaeangliae</i>	Humpback Whale	E	All Oceans
<b>Family Balaenidae</b>			
<i>Balaena mysticetus</i>	Bowhead Whale	E	Arctic, N.Atlantic & N.Pacific Oceans
<i>Eubalaena australis</i>	Southern Right Whale	V	S. Atlantic, Pacific, Indian & Southern Oceans
<i>Eubalaena glacialis</i>	Northern Right Whale	E	N.Atlantic & N.Pacific Oceans
<b>Order CARNIVORA</b>			
<b>Family Canidae</b>			
<i>Canis lupus</i>	Grey Wolf	V	North America, Middle East, Eurasia
<i>Canis rufus</i>	Red Wolf	E	U.S.A.

<i>Canis simensis</i>	Simen Fox	E	Ethiopia
<i>Chrysocyon brachyurus</i>	Maned Wolf	V	South America
<i>Cuon alpinus</i>	Dhole	V	Asia
<i>Dusicyon australis</i>	Falkland Island Wolf	Ex	[Falkland Is]
<i>Dusicyon microtis</i>	Small-eared Zorro	K	South America
<i>Lycyaon pictus</i>	African Wild Dog	V	Subsaharan Africa
<i>Speothos venaticus</i>	Bush Dog	V	South America
<i>Vulpes bengalensis</i>	Bengal Fox	K	India, Pakistan, S.Nepal
<b>Family Ursidae</b>			
<i>Ailuropoda melanoleuca</i>	Giant Panda	R	China
<i>Melursus ursinus</i>	Sloth Bear	I	India, Nepal, Sri Lanka
<i>Selenarctos thibetanus gedrosianus</i>	Baluchistan Bear	E	Iran, Pakistan
<i>Tremarctos ornatus</i>	Spectacled Bear	V	South America
<i>Ursus arctos nelsoni</i>	Mexican Grizzly Bear	Ex	[Mexico, U.S.A.]
<i>Ursus maritimus</i>	Polar Bear	V	Arctic
<b>Family Procyonidae</b>			
<i>Ailurus fulgens</i>	Red Panda	K	Nepal to China
<i>Procyon glomeralleni</i>	Barbados Racoon	Ex?	[Barbados]
<i>Procyon pygmaeus</i>	Cozumel Island Racoon	K	Cozumel I. (Mexico)
<i>Nasua nelsoni</i>	Cozumel Island Coati	K	Cozumel I. (Mexico)
<b>Family Mustelidae</b>			
<i>Aonyx cinerea</i>	Oriental Small-clawed Otter	K	Asia
<i>Lutra felina</i>	Marine Otter	V	Coastal Chile & Peru, [Argentina]
<i>Lutra longicaudis longicaudis</i>	La Plata Otter	V	South America
<i>Lutra lutra lutra</i>	European Otter	V	Eurasia
<i>Lutra perspicillata</i>	Smooth-coated Otter	K	Asia
<i>Lutra provocax</i>	Southern River Otter	V	W. Argentina, C.&S.Chile
<i>Lutra sumatrana</i>	Hairy-nosed Otter	K	South-east Asia
<i>Pteronura brasiliensis</i>	Giant Otter	V	South America
<i>Conepatus mesoleucus telmallestes</i>	Big Thicket Hog-nosed Skunk	I	E.Texas (U.S.A.)
<i>Gulo gulo</i>	Wolverine	V	Eurasia, North America
<i>Martes flavigula chrysoaspila</i>	Taiwan Yellow-throated Marten	I	Taiwan
<i>Martes gwatkinsi</i>	Nilgiri Marten	I	S.India
<i>Martes melampus tsuensis</i>	Tsushima Island Marten	I	Japan
<i>Melogale everetti</i>	Kinabalu Ferret-badger	K	Sabah
<i>Melogale orientalis</i>	Javan Ferret-badger	K	Java



<i>Mustela lutreola</i>	European Mink	V	Europe
<i>Mustela lutreolina</i>	Indonesian Mountain Weasel	K	Java, S.Sumatra?
<i>Mustela nigripes</i>	Black-footed Ferret	E	U.S.A.
<i> Vormela peregusna peregusna</i>	European Marbled Polecat	V	C.Europe to Greece & Turkey
<b>Family Viverridae</b>			
<i>Arctogalidia trivirgata trilineata</i>	Javan Small-toothed Palm Civet	I	Java
<i>Chrotogale owstoni</i>	Owston's Palm Civet	K	Indochina
<i>Cryptoprocta ferox</i>	Fossa	K	Madagascar
<i>Cynogale bennettii</i>	Otter civet	K	South-east Asia
<i>Eupleres goudotii</i>	Falanouc	V	Madagascar
<i>Fossa fossana</i>	Malagasy Civet	V	Madagascar
<i>Genetta abyssinica</i>	Abyssinian Genet	K	Ethiopia, N.Somalia
<i>Genetta genetia isabelae</i>	Ibiza Common Genet	R	Spain
<i>Genetta johnstoni</i>	Johnston's Genet	K	Liberia, Guinea
<i>Macrogalidia musschenbroekii</i>	Sulawesi Palm Civet	R	Sulawesi
<i>Paradoxurus jerdoni</i>	Jerdon's Palm Civet	I	S.India
<i>Poiana richardsoni liberiensis</i>	Leighton's Linsang	I	Liberia, Ivory Coast, Sierra Leone?
<i>Viverra megaspila civetina</i>	Malabar Large Spotted Civet	E	Western Ghats (India)
<b>Family Herpestidae</b>			
<i>Bdeogale crassicauda omnivora</i>	Sokoke Bushy-tailed Mongoose	E	N.Coastal Tanzania, Kenya
<i>Bdeogale crassicauda tenuis</i>	Zanzibar Bushy-tailed Mongoose	I	Zanzibar
<i>Bdeogale jacksoni</i>	Jackson's Mongoose	K	C.Kenya, S.E.Uganda
<i>Galidictis grandidiensis</i>	Giant-striped Mongoose	K	Madagascar
<i>Galidictis fasciata</i>	Malagasy Broad-striped Mongoose	I	Madagascar
<i>Liberiictis kuhni</i>	Liberian Mongoose	E	N.E.Liberia, Ivory Coast?, Guinea?
<i>Mungotictis decemlineata</i>	Malagasy Narrow-striped Mongoose	V	Madagascar
<i>Salanoia concolor</i>	Malagasy Brown-tailed Mongoose	K	Madagascar
<b>Family Hyaeidae</b>			
<i>Hyaena brunnea</i>	Brown Hyae	V	Southern Africa
<i>Hyaena hyaena barbara</i>	Barbary Hyae	E	Algeria, Morocco, Tunisia
<b>Family Felidae</b>			
<i>Acinonyx jubatus</i>	Cheetah	V	Africa, Middle East, Iran, U.S.S.R.
<i>Acinonyx jubatus venaticus</i>	Asiatic Cheetah	E	Iran, U.S.S.R.
<i>Felis badia</i>	Bornean Bay Cat	R	Borneo
<i>Felis caracal michaelis</i>	Turkmenian Caracal Lynx	R	U.S.S.R.



## Order SIRENIA

### Family Dugongidae

*Dugong dugon*

*Hydrodamalis gigas*

Dugong  
Steller's Sea Cow

V Coastal Indian & Western Pacific Oceans  
Ex [Bering Sea, North Pacific Ocean]

### Family Trichechidae

*Trichechus inunguis*

*Trichechus manatus*

Amazonian Manatee  
West Indian Manatee

V Amazon basin  
V Caribbean & South American Coasts &  
Rivers  
V West Africa

*Trichechus senegalensis*

West African Manatee

## Order PERISSODACTYLA

### Family Equidae

*Equus africanus*

*Equus grevyi*

*Equus hemionus*

*Equus hemionus hemippus*

*Equus hemionus khur*

*Equus przewalskii*

*Equus quagga quagga*

*Equus zebra hartmannae*

*Equus zebra zebra*

African Wild Ass

Grevy's Zebra

Asiatic Wild Ass

Syrian Wild Ass

Indian Wild Ass

Przewalski's Horse

True Quagga

Hartmann's Mountain Zebra

Cape Mountain Zebra

E North-east Africa  
E Ethiopia, Kenya, [Somalia]  
V Asia

Ex [Syria]

E Pakistan, India

Ex? [China, Mongolia]

Ex [South Africa]

V Angola, Namibia

E South Africa

### Family Tapiridae

*Tapirus bairdii*

*Tapirus indicus*

*Tapirus pinchaque*

Central American Tapir

Malayan Tapir

Mountain Tapir

V Central & North-west South America  
E South-east Asia  
V North-west South America

### Family Rhinocerotidae

*Ceratotherium simum cottoni*

*Diceros bicornis*

*Didermocerus sumatrensis*

*Rhinoceros sondaicus*

*Rhinoceros unicornis*

Northern Square-lipped Rhinoceros

Black Rhinoceros

Sumatran Rhinoceros

Javan Rhinoceros

Great Indian Rhinoceros

E Zaire, S. Sudan  
E Africa

E South-east Asia

E Java

E India, Nepal

**Order ARTIODACTYLA****Family Suidae**

- Babirusa*  
*Sus barbatus cebifrons*  
*Sus barbatus oi*  
*Sus salvanius*  
*Sus scrofa riukiuanus*  
*Sus verrucosus*

- Babirusa  
 Visayan Warty Pig  
 Western Bearded Pig  
 Pygmy Hog  
 Ryukyu Islands' Wild Pig  
 Javan and Bawean Warty Pigs

- V Sulawesi, Buru, Sulu & Togian Is  
 V Visayan Is (Philippines)  
 V Malaysia, Indonesia  
 E [Bangladesh], India, Nepal  
 V Ryukyu Is (Japan)  
 V Java & Bawean I.

**Family Tayassuidae**

- Catagonus wagneri*

- Chacoan Peccary

- V Argentina, Bolivia, Paraguay

**Family Hippopotamidae**

- Choeropsis liberiensis*

- Pygmy Hippopotamus

- V West Africa

**Family Camelidae**

- Camelus bactrianus*  
*Vicugna vicugna*

- Wild Bactrian Camel  
 Vicuna

- V China, Mongolia  
 V Andes

**Family Cervidae**

- Axis calamitanensis*  
*Axis kuhli*  
*Blastocercus dichotomus*  
*Cervus albirostris*  
*Cervus alfredi*  
*Cervus duvauceli*  
*Cervus elaphus bactrianus*  
*Cervus elaphus barbarus*  
*Cervus elaphus corsicanus*  
*Cervus elaphus hanglu*  
*Cervus elaphus macneilli*  
*Cervus elaphus wallichi*  
*Cervus elaphus yarkandensis*  
*Cervus eldi eldi*  
*Cervus eldi stamensis*  
*Cervus nippon grassianus*  
*Cervus nippon keramae*  
*Cervus nippon kopschi*  
*Cervus nippon mandarinus*

- Calamian Deer  
 Kuhl's Deer  
 Marsh Deer  
 Thorold's Deer  
 Visayan Spotted Deer  
 Swamp Deer  
 Bactrian Deer  
 Barbary Deer  
 Corsican Red Deer  
 Hangul  
 M'Neill's Deer  
 Shou  
 Yarkand Deer  
 Manipur Brow-antlered Deer  
 Thailand Brow-antlered Deer  
 Shansi Sika  
 Ryukyu Sika  
 South China Sika  
 North China Sika
- V Calamian I. (Philippines)  
 R Bawean I. (Indonesia)  
 V Central South America  
 I China  
 E Visayan Is (Philippines)  
 E India, Nepal  
 E Afghanistan, U.S.S.R.  
 V Algeria, Tunisia  
 E [Corsica], Sardinia  
 E India  
 I China  
 E China, Bhutan  
 E China  
 E India  
 E South-east Asia  
 E China  
 E Ryukyu Is  
 E China  
 E China

<i>Cervus nippon taiouanus</i>	Formosan Sika	E	Taiwan
<i>Dama mesopotamica</i>	Persian Fallow Deer	E	Mesopotamia
<i>Hippocamelus antisensis</i>	North Andean Huemul	V	North Andes
<i>Hippocamelus bisulcus</i>	South Andean Huemul	E	South Andes
<i>Moschus chrysogaster</i> (subspecies)	Himalayan subspecies of Musk Deer	V	Himalayas
<i>Muntiacus crinifrons</i>	Black Muntjac	I	China
<i>Muntiacus feae</i>	Fea's Muntjac	E	Burma, Thailand
<i>Odocoileus hemionus cerrosensis</i>	Cedros Island Mule Deer	R	Mexico
<i>Odocoileus virginianus clavium</i>	Key Deer	R	U.S.A.
<i>Ozotoceros bezoarticus celer</i>	Argentinian Pampas Deer	E	Argentina
<i>Pudu mephistophiles</i>	Northern Pudu	I	Andes
<b>Family Antilocapridae</b>			
<i>Antilocapra americana peninsularis</i>	Lower California Pronghorn	E	Mexico
<i>Antilocapra americana sonoriensis</i>	Sonoran Pronghorn	E	Mexico, U.S.A.
<b>Family Bovidae</b>			
<i>Bison bonasus</i>	European Bison	V	U.S.S.R., Poland
<i>Bos gaurus</i>	Gaur	V	South-east Asia
<i>Bos grunniens</i>	Wild Yak	E	Central Asia
<i>Bos javanicus</i>	Banteng	V	South-east Asia
<i>Bos sauveli</i>	Kouprey	E	Indochina
<i>Bubalus bubalis</i>	Wild Asiatic Water Buffalo	E	India, Nepal
<i>Bubalus depressicornis</i>	Lowland Anoa	E	Sulawesi
<i>Bubalus mindorensis</i>	Tamaraw	E	Philippines
<i>Bubalus quarlesi</i>	Mountain Anoa	E	Sulawesi
<i>Taurotragus derbianus derbianus</i>	Western Giant Eland	E	West Africa
<i>Addax nasomaculatus</i>	Addax	E	Sahara/Sahel
<i>Aepyceros melampus petersi</i>	Black-faced Impala	E	Angola, Namibia
<i>Alcelaphus buselaphus swaynei</i>	Swayne's Hartebeest	E	Ethiopia, Somalia
<i>Alcelaphus buselaphus tora</i>	Tora Hartebeest	E	Egypt, Ethiopia, Sudan
<i>Ammodorcas clarkei</i>	Dibatag	V	Ethiopia, Somalia
<i>Cephalophus adersi</i>	Ader's Duiker	V	Kenya, Tanzania, Zanzibar
<i>Cephalophus jentinki</i>	Jentink's Duiker	E	Ivory Coast, Liberia
<i>Cephalophus spadix</i>	Abbott's Duiker	V	Tanzania
<i>Cephalophus zebra</i>	Zebra Duiker	V	Ivory Coast, Liberia, Sierra Leone
<i>Damaliscus dorcas dorcas</i>	Bontebok	V	South Africa
<i>Damaliscus hunteri</i>	Hunter's Antelope	R	Kenya, Somalia, Tanzania
<i>Dorcatragus megaloitis</i>	Beira Antelope	K	Djibouti, Ethiopia, Somalia

<i>Gazella cuvieri</i>	Cuvier's Gazelle	E	North-west Africa
<i>Gazella dama</i>	Dama Gazelle	V	Sahara/Sahel
<i>Gazella dorcas</i>	Dorcas Gazelle	V	Sahara/Sahel & Middle East
<i>Gazella gazella</i>	Mountain Gazelle	V	Arabia, Middle East
<i>Gazella leptoceros</i>	Slender-horned Gazelle	V	Sahara/Sahel
<i>Gazella rufifrons</i>	Red-fronted Gazelle	V	Senegal to Eritrea
<i>Gazella soemmerringi</i>	Soemmerring's Gazelle	V	North-eastern Africa
<i>Gazella spekei</i>	Speke's Gazelle	V	Somalia, Ethiopia
<i>Gazella subgutturosa marica</i>	Saudi Goitred Gazelle	E	Arabia
<i>Hippotragus leucophaeus</i>	Bluebuck	Ex	[South Africa]
<i>Hippotragus niger varians</i>	Giant Sable Antelope	E	Angola
<i>Kobus leche</i>	Lechwe	V	Southern Africa
<i>Neotragus moschatus moschatus</i>	Zanzibar Suni	E	Zanzibar
<i>Oryx dammah</i>	Scimitar-horned Oryx	E	Sahara/Sahel
<i>Oryx leucoryx</i>	Arabian Oryx	E	Arabia, Middle East
<i>Tragelaphus buxtoni</i>	Mountain Nyala	E	Ethiopia
<i>Capricornis crispus swinhoei</i>	Formosan Serow	V	Taiwan
<i>Capricornis sumatraensis sumatraensis</i>	Sumatran Serow	E	Sumatra
<i>Budorcas taxicolor bedfordi</i>	Golden Takin	R	China
<i>Budorcas taxicolor tibetana</i>	Szechwan Takin	I	China
<i>Nemorhaedus baileyi</i>	Red Goral	V	Burma, India, China
<i>Hemitragus hylaeus</i>	Nilgiri Tahr	V	India
<i>Hemitragus jayakari</i>	Arabian Tahr	E	Oman, U.A.E.
<i>Capra falconeri</i>	Markhor	V	West Himalayas
<i>Capra falconeri megaceros</i>	Straight-horned Markhor	E	Afghanistan, Pakistan
<i>Capra pyrenaica pyrenaica</i>	Pyrenean Ibex	E	Spain
<i>Capra waliae</i>	Walia Ibex	E	Ethiopia
<i>Rupicapra rupicapra cartusiana</i>	Chartreuse Chamois	E	France
<i>Rupicapra rupicapra tatra</i>	Tatra Chamois	R	Czechoslovakia, Poland
<i>Rupicapra pyrenaica ornata</i>	Abruzzo Chamois	V	Italy
<i>Ammotragus lervia</i>	Barbary Sheep	V	Sahara/Sahel
<i>Ovis ammon</i>	Argali	I	Mtns of C.Asia
<i>Ovis orientalis musimon</i>	Sardinian Mouflon	V	Sardinia, Corsica
<i>Ovis orientalis ophion</i>	Cyprus Mouflon	V	Cyprus

## BIRDS

## CLASS AVES

## Order APTERYGIFORMES

## Family Apterygidae

*Apteryx owenii*

Little Spotted Kiwi

K\* New Zealand

## Order TINAMIFORMES

## Family Tinamidae

*Tinamus solitarius**Tinamus osgoodi**Crypturellus saltuarius**Crypturellus noctivagus**Crypturellus transfasciatus**Nothoprocta taczanowskii**Nothoprocta kalinowskii**Nothura minor**Taoniscus nanus*

Solitary Tinamou

Black Tinamou

Magdalena Tinamou

Yellow-legged Tinamou

Pale-browed Tinamou

Taczanowski's Tinamou

Kalinowski's Tinamou

Lesser Nothura

Dwarf Tinamou

K\* Argentina, Brazil, Paraguay

K\* Colombia, Peru

I Colombia

K\* Brazil

K\* Ecuador, Peru

K\* Peru

K\* Peru

K\* Brazil

K\* Argentina, Brazil

## Order SPHENISCIFORMES

## Family Spheniscidae

*Megadyptes antipodes**Spheniscus demersus**Spheniscus humboldti*

Yellow-eyed Penguin

Jackass Penguin

Peruvian Penguin

K\* New Zealand

S Namibia, South Africa

K\* Chile, Peru

## Order PODICIPEDIFORMES

## Family Podicipedidae

*Tachybaptus pelzelni**Tachybaptus rufolavatus**Podilymbus gigas**Podiceps andinus**Podiceps taczanowskii**Podiceps gallardoi*

Madagascar Little Grebe

Alaotra Grebe

Atitlan Grebe

Colombian Grebe

Junin Grebe

Hooded Grebe

K Madagascar

E Madagascar

Ex Guatemala

Ex Colombia

E Peru

R Argentina

## Order PROCELLARIIFORMES

## Family Diomedeidae

*Diomedea amsterdamensis**Diomedea albatrus*

Amsterdam Albatross

Short-tailed Albatross

E Amsterdam I. (France)

E Japan

### Family Procellariidae

<i>Pterodroma aterrima</i>	Mascarene Black Petrel	E	Mauritius
<i>Pterodroma feae</i>	Gon-gon	R	Cape Verde Is, Madeira (Portugal)
<i>Pterodroma madeira</i>	Freira	E	Madeira (Portugal)
<i>Pterodroma hasitata</i>	Black-capped Petrel	V	Cuba, Dominican Republic, Haiti
<i>Pterodroma cahow</i>	Cahow	E	Bermuda
<i>Pterodroma becki</i>	Beck's Petrel	I	Papua New Guinea, Solomon Is
<i>Pterodroma ultima</i>	Murphy's Petrel	K*	Pitcairn Is (U.K.), Tuamotu Archipelago (France), Tubuai Is (France)
<i>Pterodroma magentae</i>	Magenta Petrel	E	Chatham Is (New Zealand)
<i>Pterodroma phaeopygia</i>	Dark-rumped Petrel	E	Galapagos (Ecuador), Hawaiian Is (U.S.A.)
<i>Pterodroma cooki</i>	Cook's Petrel	K*	New Zealand
<i>Pterodroma axillaris</i>	Chatham Island Petrel	E	Chatham Is (New Zealand)
<i>Pterodroma deilippiana</i>	Defilippe's Petrel	K*	Chile
<i>Pterodroma pycrofti</i>	Pycroft's Petrel	K*	New Zealand
<i>Pterodroma macgillivrayi</i>	Fiji Petrel	I	Fiji
<i>Procellaria parkinsoni</i>	Black Petrel	E	New Zealand
<i>Procellaria westlandica</i>	Westland Black Petrel	V	New Zealand
<i>Puffinus creatopus</i>	Pink-footed Shearwater	K*	Juan Fernandez Is (Chile)
<i>Puffinus heinrothi</i>	Heinroth's Shearwater	I	Papua New Guinea
<i>Puffinus newelli</i>	Newell's Shearwater	K*	Hawaiian Is (USA)
<i>Puffinus auricularis</i>	Townsend's Shearwater	K*	Mexico

### Family Hydrobatidae

<i>Oceanodroma macrodactyla</i>	Guadalupe Storm-petrel	Ex	Mexico
<i>Oceanodroma markhami</i>	Markham's Storm-petrel	K*	Eastern Pacific Ocean
<i>Oceanodroma tristrami</i>	Sooty Storm-petrel	K*	Hawaiian Is (U.S.A.), Japan
<i>Oceanodroma hornbyi</i>	Ringed Storm-petrel	K*	Chile, Ecuador, Peru

### Family Pelecanoididae

<i>Pelecanoides garrnotti</i>	Peruvian Diving Petrel	K*	Chile, Peru
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### Order PELECANIFORMES

#### Family Pelecanidae

<i>Pelicanus crispus</i>	Dalmatian Pelican	V	Western Palearctic
<i>Pelicanus philippensis</i>	Spot-billed Pelican	K*	Burma, China, India, Indonesia, Kampuchea, Laos, Malaysia, Thailand, Viet Nam

<b>Family Sulidae</b> <i>Sula abbotti</i>	Abbott's Booby	E	Christmas I. (Australia)
<b>Family Phalacrocoracidae</b> <i>Phalacrocorax carunculatus</i> <i>Phalacrocorax pygmaeus</i> <i>Nannopterum harrisi</i>	New Zealand King Cormorant Pygmy Cormorant Galapagos Flightless Cormorant	K* K* R	New Zealand Western Palearctic Galapagos (Ecuador)
<b>Family Fregatidae</b> <i>Fregata aquila</i> <i>Fregata andrewsi</i>	Ascension Frigatebird Christmas Frigatebird	R V	Ascension I. (U.K.) Christmas I. (Australia)
<b>Order CICONIIFORMES</b> <b>Family Ardeidae</b> <i>Ixobrychus novaezelandia</i> <i>Gorsachius goisagi</i>  <i>Gorsachius magnificus</i> <i>Egretta vinaceigula</i> <i>Egretta eulophotes</i>  <i>Ardea humbloti</i> <i>Ardea imperialis</i>	New Zealand Little Bittern Japanese Night-heron  White-eared Night-heron Slaty Egret Chinese Egret  Madagascar Heron White-bellied Heron	K* K*  K* I V  K K*	New Zealand China, Indonesia, Japan, Philippines, Taiwan China Botswana, Namibia, Zambia China, Indonesia, Malaysia, North Korea, Philippines Madagascar, Comoros Bhutan, Burma, India, Nepal
<b>Family Balaenicipitidae</b> <i>Balaeniceps rex</i>	Shoebill	S	Central and East Africa
<b>Family Ciconiidae</b> <i>Mycteria cinerea</i> <i>Ciconia stormi</i> <i>Ciconia boyciana</i> <i>Leptoptilos dubius</i>	Milky Stork Storm's Stork Oriental White Stork Greater Adjutant	V I E K*	Indonesia, Kampuchea, Malaysia, Viet Nam Indonesia, Malaysia, Thailand China, Japan, South Korea, U.S.S.R. Bangladesh, Burma, India, Kampuchea, Laos, Thailand, Viet Nam
<b>Family Threskiornithidae</b> <i>Pseudibis davisoni</i>  <i>Pseudibis gigantea</i> <i>Geronticus eremita</i>	White-shouldered Ibis  Giant Ibis Northern Bald Ibis	I  R E	Burma, Indonesia, Kampuchea, Laos, Thailand, Viet Nam  Kampuchea, Laos, Thailand, Viet Nam North-west Africa, Turkey, Ethiopia, North Yemen



<i>Geronticus calvus</i>	Southern Bald Ibis	R	Lesotho, South Africa, Swaziland
<i>Nipponia nippon</i>	Crested Ibis	E	China, Japan
<i>Bostrychia bocagei</i>	Dwarf Olive Ibis	I	Sao Tomé
<i>Platalea minor</i>	Black-faced Spoonbill	K*	China, Japan, North Korea, Philippines, Taiwan, Viet Nam
<b>Family Phoenicopteridae</b>			
<i>Phoenicoparrus andinus</i>	Andean Flamingo	K*	Argentina, Bolivia, Chile, Peru
<i>Phoenicoparrus jamesi</i>	Puna Flamingo	K*	Argentina, Bolivia, Chile, Peru
<b>Order ANSERIFORMES</b>			
<b>Family Anhimidae</b>			
<i>Chauna chavaria</i>	Northern Screamer	K*	Colombia, Venezuela
<b>Family Anatidae</b>			
<i>Dendrocygna arborea</i>	West Indian Whistling-duck	V	Caribbean Islands
<i>Anser erythropus</i>	Lesser White-fronted Goose	K*	Western Palearctic
<i>Branta sandvicensis</i>	Hawaiian Goose	V	Hawaiian Is (U.S.A.)
<i>Stictonetta naevosa</i>	Freckled Duck	K*	Australia
<i>Tadorna cristata</i>	Crested Shelduck	K*	South Korea, U.S.S.R.
<i>Cairina scutulata</i>	White-winged Duck	V	Bangladesh, Burma, India, Indonesia, Thailand
<i>Aix galericulata</i>	Mandarin Duck	K*	China, Japan, North Korea, South Korea, Taiwan, U.S.S.R.
<i>Anas formosa</i>	Baikal Teal	K*	China, Japan, North Korea, South Korea, U.S.S.R.
<i>Anas bernieri</i>	Madagascar Teal	V	Madagascar
<i>Anas aucklandica</i>	New Zealand Brown Teal	V	New Zealand
<i>Marmaronetta angustirostris</i>	Marbled Teal	K*	Western Palearctic
<i>Rhodonessa caryophyllacea</i>	Pink-headed Duck	Ex	India, Nepal
<i>Aythya innotata</i>	Madagascar Pochard	E	Madagascar
<i>Mergus octosetaceus</i>	Brazilian Merganser	I	Argentina, Brazil, Paraguay
<i>Mergus squamatus</i>	Scaly-sided Merganser	I	China, U.S.S.R.
<i>Mergus australis</i>	Auckland Island Merganser	Ex	New Zealand
<i>Oxyura leucocephala</i>	White-headed Duck	K*	Western Palearctic

## Order FALCONIFORMES

## Family Cathartidae

*Gymnogyps californianus*

## Family Accipitridae

*Chondrohierax wilsonii**Henicopernis infuscata**Milvus milvus**Haliaeetus vociferoides**Haliaeetus leucorhynchus**Haliaeetus albicilla**Haliaeetus pelagicus**Gyps coprotheres**Aegypius monachus**Spilornis klossi**Spilornis kinabaluensis**Spilornis elgini**Euriorchis astur**Accipiter nanus**Accipiter brachyurus**Accipiter imitator**Accipiter collaris**Accipiter gundlachi**Accipiter poliogaster**Leucopternis plumbea**Leucopternis lacernulata**Leucopternis occidentalis**Leucopternis polionota**Harpyhaliaetus solitarius**Harpyhaliaetus coronatus**Buteo ridgwayi**Buteo galapagoensis**Buteo solitarius**Buteo ventralis**Morphus guianensis*

California Condor

E U.S.A.

Cuban Kite

R Cuba

Black Honey Buzzard

K\* Papua New Guinea

Red Kite

K\* Western Palearctic

Madagascar Fish-eagle

E Madagascar

Pallas's Fish-eagle

K\* Burma, China, India, Iran, Pakistan, U.S.S.R.

White-tailed Fish-eagle

V Palearctic

Steller's Fish-eagle

K\* Japan, Korea, U.S.S.R.

Cape Vulture

R Southern Africa

Black (Cinereous) Vulture

K\* Palearctic

Nicobar Serpent-eagle

K\* Nicobar Is (India)

Kinabalu Serpent-eagle

K\* Malaysia

Dark Serpent-eagle

K\* Andaman Is (India)

Madagascar Serpent Eagle

E Madagascar

Small Sparrowhawk

K\* Indonesia

New Britain Sparrowhawk

K\* Papua New Guinea

Imitator Sparrowhawk

K\* Papua New Guinea, Solomon Is

Semi-collared Sparrowhawk

K\* Colombia, Ecuador, Peru, Venezuela

Gundlach's Hawk

K\* Cuba

Grey-bellied Hawk

K\* South America

Plumbeous Hawk

K\* Colombia, Ecuador, Panama, Peru

White-necked Hawk

K\* Brazil

Grey-backed Hawk

I Ecuador

Mantled Hawk

I Argentina, Brazil, Paraguay

Solitary Eagle

K\* Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Mexico, Panama, Peru, Venezuela

Crowned Eagle

K\* Argentina, Bolivia, Brazil, Paraguay, Uruguay

Ridgway's Hawk

K\* Dominican Republic, Haiti

Galapagos Hawk

R Galapagos (Ecuador)

Hawaiian Hawk

R Hawaiian Is (U.S.A.)

Red-tailed Hawk

K\* Argentina, Chile

Crested Eagle

R South and Central America

*Harpia harpyja*  
*Harpyopsis novaeguineae*  
*Pitheophaga jefferyi*  
*Aquila adalberti*  
*Aquila heliaca*  
*Spizaetus bartelsi*  
*Spizaetus philippensis*

R South and Central America  
 K\* Indonesia, Papua New Guinea  
 E Philippines  
 E Portugal, Spain  
 K\* Western Palearctic  
 K\* Indonesia  
 K\* Philippines

Harpy Eagle  
 New Guinea Harpy Eagle  
 Philippine Eagle  
 Spanish Imperial Eagle  
 Imperial Eagle  
 Javan Hawk-eagle  
 Philippine Hawk-eagle

**Family Falconidae**

*Micrastur plumbeus*  
*Micrastur buckleyi*  
*Falco punctatus*  
*Falco deiroleucus*

K\* Brazil, Colombia, Ecuador  
 K\* Ecuador, Peru  
 E Mauritius  
 K\* South and Central America

Plumbeous Forest-falcon  
 Traylor's Forest-falcon  
 Mauritius Kestrel  
 Orange-breasted Falcon

**Order GALLIFORMES**

**Family Megapodiidae**

*Megapodius nicobariensis*  
*Megapodius bernsteini*  
*Megapodius laperouse*  
*Megapodius pritchardii*  
*Megapodius wallacei*  
*Leipoa ocellata*  
*Aepyodius bruijnii*  
*Macrocephalon maleo*

India  
 Indonesia  
 R Belau, Northern Mariana Is (U.S.A.)  
 K\* Tonga  
 K\* Indonesia  
 K\* Australia  
 K\* Indonesia  
 V Indonesia

Nicobar Scrubfowl  
 Sula Scrubfowl  
 Micronesian Scrubfowl  
 Niuafo'ou Scrubfowl  
 Moluccan Scrubfowl  
 Malleefowl  
 Waigeo Brush-turkey  
 Maleo

**Family Cracidae**

*Ortalis erythroptera*  
*Penelope barbata*  
*Penelope dabbeni*  
*Penelope albipennis*  
*Penelope perspicax*  
*Penelope jacucaca*  
*Penelope ochrogaster*  
*Pipile jacutinga*  
*Penelopina nigra*

K\* Ecuador, Peru  
 K\* Ecuador, Peru  
 K\* Argentina, Bolivia  
 E Peru  
 E Colombia  
 K\* Brazil  
 K\* Brazil  
 E Argentina, Brazil, Paraguay  
 K\* El Salvador, Guatemala, Honduras, Mexico,  
 Nicaragua

Rufous-headed Chachalaca  
 Bearded Guan  
 Red-faced Guan  
 White-winged Guan  
 Cauca Guan  
 White-browed Guan  
 Chestnut-bellied Guan  
 Black-fronted Piping Guan  
 Highland Guan

*Oreophasis derbianus*  
*Mitu mitu*  
*Pauxi pauxi*  
*Pauxi unicornis*

E Guatemala, Mexico  
 E Brazil  
 K\* Colombia, Venezuela  
 K\* Bolivia, Peru

Horned Guan  
 Alagoas Curassow  
 Northern Helmeted Curassow  
 Southern Helmeted Curassow

<i>Crax alberti</i>			V	Colombia
<i>Crax globulosa</i>	Blue-billed Curassow		K*	Bolivia, Brazil, Colombia, Ecuador, Peru
<i>Crax blumenbachi</i>	Wattled Curassow		E	Brazil
<b>Family Meleagridae</b>				
<i>Agriocharis ocellata</i>	Red-billed Curassow			
	Ocellated Turkey		K*	Mexico, Guatemala, Belize
<b>Family Phasianidae</b>				
<i>Dendrotyx barbatus</i>	Bearded Wood Partridge		K*	Mexico
<i>Odontophorus hyperythrus</i>	Chestnut Wood Quail		K*	Colombia
<i>Odontophorus strophium</i>	Gorgeted Wood Quail		E	Colombia
<i>Tetraoallus altaicus</i>	Altai Snowcock		K*	Mongolia, U.S.S.R.
<i>Francolinus ochropectus</i>	Djibouti Francolin		E	Djibouti
<i>Francolinus camerunensis</i>	Mount Cameroon Francolin		R	Cameroon
<i>Francolinus swierstrai</i>	Swierstra's Francolin		I	Angola
<i>Francolinus nahani</i>	Nahan's Francolin		R	Uganda, Zaire
<i>Francolinus gularis</i>	Swamp Partridge		K*	Bangladesh, India, Nepal
<i>Perdicula manipurensis</i>	Manipur Bush Quail		K*	Bangladesh, India
<i>Arborophila atrogularis</i>	White-cheeked Partridge		K*	India, Burma
<i>Arborophila rufipectus</i>	Sichuan Partridge		K*	China
<i>Arborophila gingica</i>	Rickett's Partridge		K*	China
<i>Arborophila davidi</i>	Orange-necked Partridge		K*	Viet Nam
<i>Arborophila cambodiana</i>	Chestnut-headed Partridge		K*	Kampuchea, Thailand
<i>Arborophila ardens</i>	White-eared Partridge		K*	China
<i>Arborophila charltonii</i>	Chestnut-necklaced Partridge		K*	Indonesia, Malaysia, Thailand
<i>Ophrysia superciliosa</i>	Himalayan Quail		K*	India
<i>Tragopan melanocephalus</i>	Western Tragopan		E	India, Pakistan
<i>Tragopan blythi</i>	Blyth's Tragopan		R	Bhutan, Burma, China, India
<i>Tragopan caboti</i>	Cabot's Tragopan		E	China
<i>Lophophorus sclateri</i>	Sclater's Monal		R	Burma, China, India
<i>Lophophorus lhuysii</i>	Chinese Monal		E	China
<i>Lophura imperialis</i>	Imperial Pheasant		V	Laos, Viet Nam
<i>Lophura edwardsi</i>	Edwards's Pheasant		V	Viet Nam
<i>Lophura hatinhensis</i>	Viet Nam Pheasant		K*	Viet Nam
<i>Lophura swinhoii</i>	Swinhoe's Pheasant		V	Taiwan
<i>Lophura ignita</i>	Crested Fireback		K*	Burma, Indonesia, Malaysia, Thailand
<i>Lophura diardi</i>	Siamese Fireback		K*	Kampuchea, Laos, Thailand, Viet Nam
<i>Lophura bulweri</i>	Bulwer's Pheasant		V	Indonesia, Malaysia

<i>Crossoptilon crossoptilon</i>	White Eared-pheasant	V	Burma, China, India
<i>Crossoptilon manichuricum</i>	Brown Eared-pheasant	E	China
<i>Crossoptilon auritum</i>	Blue Eared-pheasant	K*	China
<i>Catreus walliichi</i>	Cheer Pheasant	E	India, Nepal, Pakistan
<i>Syrnaiticus ellioti</i>	Elliot's Pheasant	E	China
<i>Syrnaiticus humiae</i>	Hume's Pheasant	R	Burma, China, India
<i>Syrnaiticus mikado</i>	Mikado Pheasant	V	Taiwan
<i>Syrnaiticus reevesi</i>	Reeves's Pheasant	K*	China
<i>Chrysolophus amherstiae</i>	Lady Amherst's Pheasant	K*	China
<i>Polyplectron germaini</i>	Germain's Peacock-pheasant	K*	Viet Nam
<i>Polyplectron malacense</i>	Malaysian Peacock-pheasant	K*	Burma, Malaysia, Thailand
<i>Polyplectron schleiermachersi</i>	Bornean Peacock-pheasant	K*	Indonesia
<i>Polyplectron emphanum</i>	Palawan Peacock-pheasant	V	Philippines
<i>Rheinardia ocellata</i>	Crested Argus	R	Laos, Malaysia, Viet Nam
<i>Pavo muticus</i>	Green Peafowl	V	Burma, China, Indonesia, Kampuchea, Laos, Thailand, Viet Nam
<i>Afropavo congensis</i>	Congo Peacock	S	Zaire
<b>Family Numididae</b>			
<i>Agelastes meleagrides</i>	White-breasted Guineafowl	E	West Africa
<b>Family Tetraonidae</b>			
<i>Tetrao tokosiewiczi</i>	Caucasian Black Grouse	K*	Iran, Turkey, U.S.S.R.
<b>Order GRUIFORMES</b>			
<b>Family Mesitornithidae</b>			
<i>Mesitornis variegata</i>	White-breasted Mesite	R	Madagascar
<i>Mesitornis unicolor</i>	Brown Mesite	K	Madagascar
<i>Monias benschi</i>	Subdesert Mesite	R	Madagascar
<b>Family Turnicidae</b>			
<i>Turnix everetti</i>	Sumba Buttonquail	K*	Indonesia
<i>Turnix worcesteri</i>	Worcester's Buttonquail	K*	Philippines
<i>Turnix melanogaster</i>	Black-breasted Buttonquail	K*	Australia
<b>Family Pedionomidae</b>			
<i>Pedionomus torquatus</i>	Plains-wanderer	K*	Australia

**Family Gruidae**

<i>Grus nigricollis</i>	Black-necked Crane	V	Bhutan, Burma, China, India, Viet Nam
<i>Grus monacha</i>	Hooded Crane	V	China, Japan, North Korea, South Korea, U.S.S.R.
<i>Grus japonensis</i>	Japanese Crane	V	China, Japan, North Korea, South Korea, U.S.S.R.
<i>Grus americana</i>	Whooping Crane	E	Canada, U.S.A.
<i>Grus vipio</i>	White-naped Crane	V	China, Japan, North Korea, South Korea, U.S.S.R.
<i>Grus leucogeranus</i>	Siberian Crane	V	Afghanistan, China, India, Iran, U.S.S.R.
<i>Bugeranus carunculatus</i>	Wattled Crane	S	Ethiopia, Central and southern Africa

**Family Rallidae**

<i>Rallus okinawae</i>	Okinawa Rail	K*	Japan
<i>Rallus wetmorei</i>	Plain-flanked Rail	K*	Venezuela
<i>Rallus antarcticus</i>	Austral Rail	K*	Argentina, Chile
<i>Rallus semiplumbeus</i>	Bogota Rail	V	Colombia
<i>Rallus muelleri</i>	Auckland Island Rail	I	New Zealand
<i>Rallus owstoni</i>	Guam Rail	V	Guam (U.S.A.)
<i>Atlantistia rogersi</i>	Inaccessible Rail	R	Inaccessible I. (U.K.)
<i>Tricholimnas lafresnayanus</i>	New Caledonian Rail	K*	New Caledonia (France)
<i>Tricholimnas sylvestris</i>	Lord Howe Island Woodhen	E	Lord Howe I. (Australia)
<i>Aramidopsis plateni</i>	Snoring Rail	K*	Indonesia
<i>Cyanolimnas cerverai</i>	Zapata Rail	R	Cuba
<i>Nesoclopeus woodfordi</i>	Woodford's Rail	K*	Papua New Guinea, Solomon Is
<i>Nesoclopeus peocloptera</i>	Barred-wing Rail	E	Fiji
<i>Gymnocrex rosenbergii</i>	Bald-faced Rail	K*	Indonesia
<i>Habroptila wallacii</i>	Invisible Rail	K*	Indonesia
<i>Crex crex</i>	Corncrake	K*	Africa, Western Palearctic
<i>Porzana spiloptera</i>	Dot-winged Crane	K*	Argentina, Uruguay
<i>Nesophylax ater</i>	Henderson Island Rail	K*	Henderson I. (U.K.)
<i>Laterallus xenopterus</i>	Horqueta or Rufous-faced Crane	K*	Brazil, Paraguay
<i>Laterallus levraudi</i>	Rusty-flanked Crane	K*	Venezuela
<i>Coturnicops exquisita</i>	Siberian Crane	K*	China, Japan, South Korea, U.S.S.R.
<i>Sarothrura ayresi</i>	White-winged Flufftail	I	Ethiopia, southern Africa
<i>Sarothrura watersi</i>	Slender-billed Flufftail	I	Madagascar
<i>Amaurornis olivieri</i>	Sakalava Rail	K	Madagascar

<i>Gallinula comeri</i>	Gough Moorhen	R	Gough I. (U.K.)
<i>Gallinula sylvestris</i>	San Cristobal Mountain Rail	I	Solomon Is
<i>Notornis mantelli</i>	Takahe	E	New Zealand
<i>Fulica cornuta</i>	Horned Coot	R	Argentina, Bolivia, Chile
<b>Family Heliornithidae</b>			
<i>Heliopais personata</i>	Masked Finfoot	K*	Bangladesh, Burma, India, Indonesia, Malaysia, Thailand
<b>Family Rhynochetidae</b>			
<i>Rhynochetos jubatus</i>	Kagu	E	New Caledonia (France)
<b>Family Otididae</b>			
<i>Tetrax tetrax</i>	Little Bustard	R	Western Palearctic
<i>Otis tarda</i>	Great Bustard	R	Palearctic
<i>Ardeotis nigriceps</i>	Great Indian Bustard	V	India
<i>Chlamydotis undulata</i>	Houbara Bustard	K*	Western Palearctic
<i>Houbaropsis bengalensis</i>	Bengal Florican	E	India, Kampuchea, Nepal
<i>Sypheotides indica</i>	Lesser Florican	E	India
<b>Order CHARADRIIFORMES</b>			
<b>Family Haematopodidae</b>			
<i>Haematopus meadewaldoi</i>	Canarian Black Oystercatcher	Ex	Canary Is (Spain)
<i>Haematopus chathamensis</i>	Chatham Island Oystercatcher	E	Chatham Is (New Zealand)
<b>Family Recurvirostridae</b>			
<i>Himantopus novaeseelandia</i>	Black Stilt	E	New Zealand
<b>Family Charadriidae</b>			
<i>Chettusia gregaria</i>	Sociable Plover	K*	Asia, north-east Africa
<i>Vanellus macropterus</i>	Javan Wattled Lapwing	I	Indonesia
<i>Charadrius melodus</i>	Piping Plover	K*	Canada, U.S.A.
<i>Charadrius thoracicus</i>	Madagascar Plover	R	Madagascar
<i>Charadrius sanctaehelenae</i>	St. Helena Plover	R	St. Helena (U.K.)
<i>Charadrius rubricollis</i>	Hooded Plover	K*	Australia
<i>Thinornis novaeseelandia</i>	New Zealand Shore Plover	E	New Zealand
<b>Family Scolopacidae</b>			
<i>Numenius borealis</i>	Eskimo Curlew	E	Canada, U.S.A.
<i>Numenius tahitiensis</i>	Bristle-thighed Curlew	K*	Alaska (U.S.A.), Pacific Ocean

<i>Numenius tenuirostris</i>	Slender-billed Curlew	K*	Western Palearctic
<i>Tringa guttifer</i>	Spotted Greenshank	I	Bangladesh, Burma, China, Hong Kong, Japan, U.S.S.R.
<i>Prosobonia cancellatus</i>	Tuamotu Sandpiper	V	Tuamotu Archipelago (France)
<i>Scolopax celebensis</i>	Sulawesi Woodcock	K*	Indonesia
<i>Scolopax rochussenii</i>	Obi Woodcock	K*	Indonesia
<i>Coenocorypha aucklandica</i>	New Zealand Snipe	R	New Zealand
<i>Gallinago nemoricola</i>	Wood Snipe	K*	Bhutan, India, Nepal, Pakistan
<i>Limnodromus semipalmatus</i>	Asian Dowitcher	R	Asia
<i>Calidris paramelanotos</i>	Cox's Sandpiper	K*	Australia
<i>Eurynorhynchus pygmeus</i>	Spoon-billed Sandpiper	K*	U.S.S.R., South-east Asia
<b>Family Glareolidae</b>			
<i>Cursorius bitorquatus</i>	Jerdon's Courser	K*	India
<b>Family Laridae</b>			
<i>Larus pacificus</i>	Pacific Gull	K*	Australia
<i>Larus atlanticus</i>	Olrog's Gull	K*	Argentina
<i>Larus fuliginosus</i>	Lava Gull	K*	Galapagos (Ecuador)
<i>Larus leucophthalmus</i>	White-eyed Gull	K*	Red Sea
<i>Larus audouinii</i>	Audouin's Gull	R	Mediterranean, Morocco
<i>Larus relictus</i>	Relict Gull	R	China, Mongolia, U.S.S.R., Viet Nam
<i>Larus saundersi</i>	Saunders's Gull	K*	China, Hong Kong, Japan, Mongolia, South Korea, Taiwan
<i>Sterna virgata</i>	Kerguelen Tern	K*	Prince Edward I. (South Africa), Crozet and Kerguelen Is (France)
<i>Sterna albostrigata</i>	Black-fronted Tern	K*	New Zealand
<i>Sterna balaenarum</i>	Damara Tern	R	South Africa, Namibia
<i>Sterna bernsteini</i>	Chinese Crested Tern	I	China, Indonesia, Malaysia, Thailand
<b>Family Alcidae</b>			
<i>Synthliboramphus wumizusume</i>	Japanese Murrelet	K*	Japan, North Korea, South Korea, U.S.S.R.
<b>Order COLUMBIFORMES</b>			
<b>Family Columbidae</b>			
<i>Columba eversmanni</i>	Pale-backed Pigeon	K*	Afghanistan, India, Iran, Pakistan, U.S.S.R.



<i>Columba oliviae</i>	Somali Pigeon	R	Somalia
<i>Columba trocaz</i>	Madeira Laurel-pigeon	R	Madeira (Portugal)
<i>Columba bollii</i>	Dark-tailed Laurel-pigeon	R	Canary Is (Spain)
<i>Columba junoniae</i>	White-tailed Laurel-pigeon	R	Canary Is (Spain)
<i>Columba thomensis</i>	Maroon Wood-pigeon	K*	Sao Tomé
<i>Columba elphinstonii</i>	Nilgiri Wood-pigeon	K*	India
<i>Columba torringtoni</i>	Sri Lanka Wood-pigeon	K*	Sri Lanka
<i>Columba punicea</i>	Pale-capped Wood-pigeon	K*	Bhutan, Burma, China, India, Thailand
<i>Columba argentina</i>	Grey Wood-pigeon	K*	Indonesia, Malaysia
<i>Columba pallidiceps</i>	Yellow-legged Wood-pigeon	K*	Papua New Guinea, Solomon Is
<i>Columba caribaea</i>	Ring-tailed Wood-pigeon	K*	Jamaica
<i>Nesoenas mayeri</i>	Pink Pigeon	E	Mauritius
<i>Zenaida graysoni</i>	Socorro Dove	K*	Mexico
<i>Columbina cyanoptis</i>	Blue-eyed Ground Dove	K*	Brazil
<i>Claravis godefrida</i>	Purple-winged Ground Dove	V	Argentina, Brazil, Paraguay
<i>Leptotila wellsi</i>	Grenada Dove	I	Grenada
<i>Leptotila ochraceiventris</i>	Ochre-bellied Dove	K*	Ecuador, Peru
<i>Leptotila conoveri</i>	Tolima Dove	I	Colombia
<i>Geotrygon caniceps</i>	Grey-headed Quail Dove	K*	Cuba, Dominican Republic
<i>Starnoenas cyanocephala</i>	Blue-headed Quail Dove	K*	Cuba
<i>Gallicolumba platanæ</i>	Mindoro Bleeding-heart	K*	Philippines
<i>Gallicolumba keayi</i>	Negros Bleeding-heart	K*	Philippines
<i>Gallicolumba menagei</i>	Sulu Bleeding-heart	K*	Philippines
<i>Gallicolumba erythroptera</i>	Society Islands Ground-dove	I	Society Is, Tuamotu Archipelago (France)
<i>Gallicolumba sanctaecrucis</i>	Santa Cruz Ground-dove	K*	Solomon Is, Vanuatu
<i>Gallicolumba salamonis</i>	Thick-billed Ground-dove	K*	Solomon Is
<i>Gallicolumba rubescens</i>	Marquesas Ground-dove	I	Marquesas (France)
<i>Gallicolumba hoedtii</i>	Wetar Ground-dove	K*	Indonesia
<i>Microgoura meeki</i>	Solomon Island Crowned Pigeon	Ex	Solomon Is
<i>Goura scheepmakeri</i>	Scheepmaker's Crowned Pigeon	K*	Indonesia, Papua New Guinea
<i>Goura victoria</i>	Victoria Crowned Pigeon	K*	Indonesia, Papua New Guinea
<i>Didunculus strigirostris</i>	Tooth-billed Pigeon	V	Western Samoa
<i>Treron teysmanni</i>	Sumba Green-pigeon	K*	Indonesia
<i>Treron floris</i>	Flores Green-pigeon	K*	Indonesia
<i>Treron psittacea</i>	Timor Green-pigeon	K*	Indonesia
<i>Treron capellei</i>	Large Green-pigeon	K*	Burma, Indonesia, Malaysia, Thailand
<i>Ptilinopus dohertyi</i>	Red-naped Fruit-dove	K*	Indonesia

<i>Ptilinopus marchei</i>	Flame-breasted Fruit-dove	K*	Philippines
<i>Ptilinopus roseicapilla</i>	Marianas Fruit-dove	V	Guam, Northern Mariana Is (U.S.A.)
<i>Ptilinopus huttoni</i>	Rapa Fruit-dove	R	Austral Is (France)
<i>Ptilinopus mercierii</i>	Marquesas Fruit-dove	K*	Marquesas Is (France)
<i>Ptilinopus arcanus</i>	Negros Fruit-dove	K*	Philippines
<i>Drepanoptila holosericea</i>	Cloven-feathered Dove	V	New Caledonia (France)
<i>Ducula mindorensis</i>	Mindoro Imperial-pigeon	K*	Philippines
<i>Ducula carola</i>	Spotted Imperial-pigeon	K*	Philippines
<i>Ducula aurorae</i>	Society Islands Imperial-pigeon	V	Society Is, Tuamotu Archipelago (France)
<i>Ducula galeata</i>	Marquesas Imperial-pigeon	E	Marquesas Is (France)
<i>Ducula pistrinaria</i>	Island Imperial-pigeon	K*	Papua New Guinea, Solomon Is
<i>Ducula whartoni</i>	Christmas Imperial-pigeon	V	Christmas I. (Australia)
<i>Ducula goliath</i>	Giant Imperial-pigeon	V	New Caledonia (France)
<b>Order PSITTACIFORMES</b>			
<b>Family Psittacidae</b>			
<i>Eos cyanogenia</i>	Biak Red Lory	K*	Indonesia
<i>Eos histrio</i>	Red-and-blue Lory	K*	Indonesia
<i>Lorius domicella</i>	Purple-naped Lory	K*	Indonesia
<i>Vini peruviana</i>	Tahiti Lorikeet	R	Society Is, Tuamotu Archipelago (France), Cook Is
<i>Vini ultramarina</i>	Ultramarine Lorikeet	R	Marquesas Is (France)
<i>Charmosyna toxopei</i>	Blue-fronted Lorikeet	K*	Indonesia
<i>Charmosyna multistriata</i>	Streaked Lorikeet	K*	Indonesia
<i>Charmosyna diadema</i>	New Caledonian Lorikeet	K*	New Caledonia (France)
<i>Cacatua sulphurea</i>	Yellow-crested Cockatoo	K*	Indonesia
<i>Cacatua moluccensis</i>	Salmon-crested Cockatoo	K*	Indonesia
<i>Cacatua alba</i>	White Cockatoo	K*	Indonesia
<i>Cacatua haematurropygia</i>	Red-vented Cockatoo	K*	Philippines
<i>Cacatua goffini</i>	Tanimbar Corella	K*	Indonesia
<i>Prioniturus luconensis</i>	Green-crowned Racket-tailed Parrot	K*	Philippines
<i>Prioniturus discurus</i>	Blue-headed Racket-tailed Parrot	K*	Philippines
<i>Prioniturus montanus</i>	Red-crowned Racket-tailed Parrot	K*	Philippines
<i>Psittichas fulgidus</i>	Vulturine Parrot	K*	Indonesia, Papua New Guinea
<i>Psephotus dissimilis</i>	Hooded Parrot	K*	Australia
<i>Psephotus chrysopterygius</i>	Golden-shouldered Parrot	R	Australia
<i>Psephotus pulcherrimus</i>	Paradise Parrot	E	Australia
<i>Cyanoramphus unicolor</i>	Antipodes Island Parrot	K*	New Zealand

<i>Cyanoramphus malherbi</i>	Orange-fronted Parakeet	E	New Zealand
<i>Neophema chrysogaster</i>	Orange-bellied Parrot	R	Australia
<i>Neophema splendida</i>	Scarlet-chested Parakeet	R	Australia
<i>Pezoporus wallicus</i>	Ground Parrot	E	Australia
<i>Geopsittacus occidentalis</i>	Night Parrot	I	Australia
<i>Agapornis nigrigenis</i>	Black-cheeked Lovebird	R	Zambia
<i>Loriculus flosculus</i>	Wallace's Hanging Parrot	K*	Indonesia
<i>Loriculus catamene</i>	Sangihe Hanging Parrot	K*	Indonesia
<i>Psittacula intermedia</i>	Rothschild's Parakeet	K*	India
<i>Psittacula caniceps</i>	Nicobar Parakeet	K*	Nicobar Is (India)
<i>Psittacula eques</i>	Mauritius Parakeet	E	Mauritius
<i>Anodorhynchus hyacinthinus</i>	Hyacinth Macaw	K*	Bolivia, Brazil, Paraguay
<i>Anodorhynchus glaucus</i>	Glaucous Macaw	Ex	Argentina, Brazil, Paraguay, Uruguay
<i>Anodorhynchus leari</i>	Indigo Macaw	E	Brazil
<i>Cyanopsitta spixii</i>	Little Blue Macaw	E	Brazil
<i>Ara glaucogularis</i> (= <i>A. caninde</i> )	Blue-throated Macaw	I	Bolivia
<i>Ara rubrogena</i>	Red-fronted Macaw	K*	Bolivia
<i>Ara maracana</i>	Blue-winged Macaw	K*	Argentina, Brazil, Paraguay
<i>Aratinga guarouba</i>	Golden Conure	V	Brazil
<i>Aratinga euops</i>	Cuban Conure	K*	Cuba
<i>Aratinga auricapilla</i>	Golden-capped Conure	K*	Brazil
<i>Leptosittaca branickii</i>	Golden-plumed Conure	K*	Colombia, Ecuador, Peru
<i>Ognorhynchus icterotis</i>	Yellow-eared Conure	V	Colombia, Ecuador
<i>Rhynchopsitta pachyrhyncha</i>	Thick-billed Parrot	V	Mexico
<i>Rhynchopsitta terrisi</i>	Maroon-fronted Parrot	E	Mexico
<i>Pyrrhura cruentata</i>	Blue-throated Conure	R	Brazil
<i>Pyrrhura perlata</i>	Pearly Conure	K*	Brazil
<i>Pyrrhura hypoxantha</i>	Yellow-sided Conure	K*	Brazil
<i>Pyrrhura albipectus</i>	White-necked Conure	K*	Ecuador
<i>Pyrrhura calliptera</i>	Brown-breasted Conure	K*	Colombia
<i>Enicognathus leptorhynchus</i>	Slender-billed Conure	K*	Chile
<i>Bolborhynchus ferrugineifrons</i>	Rufous-fronted Parakeet	I	Colombia
<i>Brotogeris pyrrhopterus</i>	Grey-cheeked Parakeet	K*	Ecuador, Peru
<i>Touit melanonota</i>	Brown-backed Parrotlet	R	Brazil
<i>Touit surda</i>	Golden-tailed Parrotlet	I	Brazil
<i>Touit stictoptera</i>	Spot-winged Parrotlet	K*	Colombia, Ecuador
<i>Pionopsitta pileata</i>	Pileated Parrot	K*	Argentina, Brazil, Paraguay
<i>Haptopsittaca amazonina</i>	Rusty-faced Parrot	K*	Colombia, Ecuador, Venezuela
<i>Amazona vittata</i>	Puerto Rican Amazon	E	Puerto Rico

<i>Amazona pretrei</i>	Red-spectacled Amazon	V	Argentina, Brazil, Paraguay, Uruguay
<i>Amazona viridigenalis</i>	Red-crowned or Green-checked Amazon	K*	Mexico
<i>Amazona brasiliensis</i>	Red-tailed Amazon	E	Brazil
<i>Amazona rhodocorytha</i>	Red-browed Amazon	K*	Brazil
<i>Amazona xanthops</i>	Yellow-faced Amazon	K*	Brazil
<i>Amazona barbadensis</i>	Yellow-shouldered Amazon	K*	Netherlands Antilles, Venezuela
<i>Amazona vinacea</i>	Vinaceous Amazon	K*	Argentina, Brazil, Paraguay
<i>Amazona versicolor</i>	St. Lucia Amazon	E	St. Lucia
<i>Amazona arausiaca</i>	Red-necked Amazon	E	Dominica
<i>Amazona guildingii</i>	St. Vincent Amazon	E	St. Vincent
<i>Amazona imperialis</i>	Imperial Amazon	E	Dominica
<i>Triclaria malachitacea</i>	Purple-bellied Parrot	K*	Brazil
<i>Strigops habroptilus</i>	Kakapo	E	New Zealand
<b>Order CUCULIFORMES</b>			
<b>Family Musophagidae</b>			
<i>Tauraco bannermanni</i>	Bannerman's Turaco	E	Cameroon
<i>Tauraco ruspolii</i>	Prince Ruspoli's Turaco	R	Ethiopia
<b>Family Cuculidae</b>			
<i>Chrysococcyx rufomerus</i>	Green-checked Bronze Cuckoo	K*	Indonesia
<i>Coccyzus ferrugineus</i>	Cocos Cuckoo	K*	Costa Rica
<i>Phaenicophaeus pyrrhocephalus</i>	Red-faced Malkoha	K*	India, Sri Lanka
<i>Neomorphus radiolosus</i>	Banded Ground Cuckoo	K*	Colombia, Ecuador
<i>Carpococcyx radiceus</i>	Sunda Ground Cuckoo	K*	Indonesia, Malaysia
<i>Coua delalandei</i>	Snail-eating Coua	Ex	Madagascar
<i>Centropus chlororhynchus</i>	Green-billed Coucal	K*	Sri Lanka
<i>Centropus steerii</i>	Steere's Coucal	K*	Philippines
<i>Centropus nigrorufus</i>	Javan Coucal	K*	Indonesia
<b>Order STRIGIFORMES</b>			
<b>Family Tytonidae</b>			
<i>Tyto soumagnei</i>	Madagascar Red Owl	I	Madagascar
<i>Tyto nigrobrunnea</i>	Taliabu Owl	K*	Indonesia
<i>Tyto inexpectata</i>	Minahassa Owl	K*	Indonesia
<i>Tyto sororcula</i>	Lesser Masked Owl	K*	Indonesia
<i>Tyto aurantia</i>	Golden Owl	K*	Papua New Guinea
<i>Phodilus prigoginei</i>	Itombwe Owl	I	Burundi, Zaire

### Family Strigidae

<i>Otus sagittatus</i>	White-fronted Scops-owl	K*
<i>Otus irenae</i>	Sokoke Scops-owl	E
<i>Otus stresemanni</i>	Sumatran Scops-owl	K*
<i>Otus angelinae</i>	Javan Scops-owl	K*
<i>Otus alfredi</i>	Flores Scops-owl	K*
<i>Otus mindorensis</i>	Mindoro Scops-owl	K*
<i>Otus pauliani</i>	Grand Comoro Scops-owl	R
<i>Otus insularis</i>	Seychelles Scops-owl	R
<i>Otus hartlaubi</i>	Sao Tomé Scops-owl	R
<i>Bubo vosseleri</i>	Usambara Eagle-owl	R
<i>Bubo philippensis</i>	Philippine Eagle-owl	K*
<i>Ketupa blakistoni</i>	Blakiston's Fish-owl	K*
<i>Scotopelia ussheri</i>	Rufous Fishing Owl	R
<i>Glaucidium albertinum</i>	Albertine Owllet	R
<i>Sceloglaux albifacies</i>	Laughing Owl	Ex
<i>Athene blewitti</i>	Forest Owllet	I
<i>Strix davidi</i>	David's Owl	K*

	Burma, Indonesia, Malaysia, Thailand	
	Kenya	
	Indonesia	
	Indonesia	
	Indonesia	
	Philippines	
	Comoro Is	
	Seychelles	
	Sao Tomé	
	Tanzania	
	Philippines	
	China, Japan, U.S.S.R.	
	West Africa	
	Rwanda, Zaire	
	New Zealand	
	India	
	China	

### Order CAPRIMULGIFORMES

#### Family Podargidae

*Batrachostomus harterti*

Dulit Frogmouth

K\* Indonesia, Malaysia

#### Family Nyctibiidae

*Nyctibius aethereus*

Long-tailed Potoo

K\* Brazil, Colombia, Ecuador, Guyana, Paraguay, Peru, Venezuela

*Nyctibius leucopterus*

White-winged Potoo

K\* Brazil

*Nyctibius bracteatus*

Rufous Potoo

K\* Colombia, Ecuador, Guyana, Peru

#### Family Caprimulgidae

*Eurostopodus diabolicus*

Satanic Nightjar

K\* Indonesia

*Siphonorhis americanus*

Jamaican Least Pauraque

Ex Jamaica

*Caprimulgus noctitherus*

Puerto Rican Nightjar

R Puerto Rico

*Caprimulgus candidans*

White-winged Nightjar

K\* Brazil, Paraguay

*Caprimulgus whitelyi*

Roraiman Nightjar

K\* Venezuela

*Caprimulgus hiruandinaceus*

Pygmy Nightjar

K\* Brazil

*Caprimulgus ruficollis*

Red-necked Nightjar

K\* Spain, Portugal, West Africa

*Caprimulgus centralasicus*

Vaurie's Nightjar

K\* China

*Caprimulgus pulchellus*

Salvadori's Nightjar

K\* Indonesia

*Macropsalis creagra*  
*Eleothreptus anomalus*

Long-trained Nightjar  
 Sickie-winged Nightjar

K\* Argentina, Brazil  
 K\* Argentina, Brazil, Paraguay, Uruguay

## Order APODIFORMES

### Family Apodidae

*Cypseloides lemosi*  
*Hydrochous gigas*  
*Collocalia elaphra*  
*Aerodramus leucophaeus*  
*Aerodramus sawtelli*  
*Schoutedenapus schoutedeni*  
*Apus sladeniae*  
*Apus acuticauda*

K\* Colombia  
 K\* Indonesia, Malaysia  
 R Seychelles  
 K\* Society Is (France)  
 K\* Cook Is  
 I Zaire  
 K Angola, Cameroon, Fernando Po  
 (Equatorial Guinea), Nigeria  
 K\* India

### Family Trochilidae

*Glaucis dohrnii*  
*Threnetes niger*  
*Phaethornis idaliae*  
*Campylopterus ensipennis*  
*Campylopterus villaviscensio*  
*Avocettula recurvirostris*  
*Popelairia letitia*  
*Lepidopyga lilliae*  
*Amazilia luciae*  
*Amazilia distans*  
*Amazilia boucardi*  
*Amazilia castaneiventris*  
*Eupherusa poliocerca*  
*Eupherusa cyanophrys*  
*Anthocephala floriceps*  
*Phlogophilus hemileucurus*  
*Phlogophilus harterti*  
*Heliodoxa gularis*  
*Hylonompha macrocerca*  
*Aglaeactis aliciae*  
*Coeligena prunellei*

Hook-billed Hermit  
 Sooty Barbthroat  
 Minute Hermit  
 White-tailed Sabrewing  
 Napo Sabrewing  
 Fiery-tailed Awbill  
 Coppery Thorntail  
 Sapphire-bellied Hummingbird  
 Honduran Emerald  
 Tachira Emerald  
 Mangrove Hummingbird  
 Chestnut-bellied Hummingbird  
 White-tailed Hummingbird  
 Oaxaca or Blue-capped Hummingbird  
 Blossomcrown  
 Ecuadorean Piedtail  
 Peruvian Piedtail  
 Pink-throated Brilliant  
 Scissor-tailed Hummingbird  
 Purple-backed Sunbeam  
 Black Inca

E Brazil  
 K\* French Guiana  
 K\* Brazil  
 K\* Tobago (Trinidad), Venezuela  
 K\* Ecuador  
 K\* Brazil, French Guiana, Guyana, Venezuela  
 K\* Bolivia  
 K\* Colombia  
 K\* Honduras  
 K\* Venezuela  
 K\* Costa Rica  
 K\* Colombia  
 K\* Mexico  
 K\* Mexico  
 K\* Colombia  
 K\* Ecuador  
 K\* Peru  
 K\* Ecuador, Peru  
 K\* Venezuela  
 K\* Peru  
 I Colombia

<i>Sephanoides fernandensis</i>	K*	Juan Fernandez Is (Chile)
<i>Heliangetus viola</i>	K*	Ecuador, Peru
<i>Heliangetus regalis</i>	K*	Peru
<i>Eriocnemis nigrivestris</i>	K*	Ecuador
<i>Eriocnemis godini</i>	K*	Ecuador
<i>Eriocnemis mirabilis</i>	K*	Colombia
<i>Eriocnemis derbyi</i>	K*	Colombia, Ecuador
<i>Haplophaedia lugens</i>	K*	Colombia, Ecuador
<i>Metallura odomae</i>	K*	Peru
<i>Metallura baroni</i>	K*	Ecuador
<i>Taphrotesbia griseiventris</i>	K*	Peru
<i>Augastes scutatus</i>	K*	Brazil
<i>Augastes lumachellus</i>	K*	Brazil
<i>Loddigesia mirabilis</i>	K*	Peru
<i>Calypte helenae</i>	K*	Cuba
<i>Eulidia yarrellii</i>	R	Chile
<i>Acestrura bombus</i>	K*	Ecuador, Peru
<i>Acestrura berlepschi</i>	K*	Ecuador
<i>Selasphorus ardens</i>	K*	Panama

<i>Juan Fernandez Firecrown</i>	K*	Juan Fernandez Is (Chile)
<i>Purple-throated Sunangel</i>	K*	Ecuador, Peru
<i>Royal Sunangel</i>	K*	Peru
<i>Black-breasted Puffleg</i>	K*	Ecuador
<i>Turquoise-throated Puffleg</i>	K*	Ecuador
<i>Colourful Puffleg</i>	K*	Colombia
<i>Black-thighed Puffleg</i>	K*	Colombia, Ecuador
<i>Hoary Puffleg</i>	K*	Colombia, Ecuador
<i>Neblina Metaltail</i>	K*	Peru
<i>Violet-throated Metaltail</i>	K*	Ecuador
<i>Grey-bellied Comet</i>	K*	Peru
<i>Hyacinth Visorbearer</i>	K*	Brazil
<i>Hooded Visorbearer</i>	K*	Brazil
<i>Marvellous Spatuletail</i>	K*	Peru
<i>Bee Hummingbird</i>	K*	Cuba
<i>Chilean Woodstar</i>	R	Chile
<i>Little Woodstar</i>	K*	Ecuador, Peru
<i>Esmeraldas Woodstar</i>	K*	Ecuador
<i>Glow-throated Hummingbird</i>	K*	Panama

<i>Resplendent Quetzal</i>	V	Central America
<i>Eared Trogon</i>	K*	Mexico, U.S.A.
<i>Baird's Trogon</i>	K*	Costa Rica, Panama

<i>Blyth's Kingfisher</i>	K*	Bhutan, Burma, China, India, Nepal, Viet Nam
<i>Jungle Kingfisher</i>	K*	Philippines
<i>Winchell's Kingfisher</i>	K*	Philippines
<i>Lazuli Kingfisher</i>	K*	Indonesia
<i>New Britain Kingfisher</i>	K*	Papua New Guinea
<i>Cinnamon-banded Kingfisher</i>	K*	Indonesia
<i>Mangaia Kingfisher</i>	K*	Cook Is
<i>Tuamotu Kingfisher</i>	K*	Tuamotu Archipelago (France)
<i>Marquesas Kingfisher</i>	K*	Marquesas Is (France)
<i>Moustached Kingfisher</i>	K*	Papua New Guinea, Solomon Is

**Order TROGONIFORMES**

- Family Trogonidae**
- Pharomachrus mocinno*
  - Eupitiotis neoxenus*
  - Trogon bairdii*

**Order CORACIIFORMES**

- Family Alcedinidae**
- Alcedo hercules*
  - Ceyx melanurus*
  - Halcyon winchelli*
  - Halcyon lazuli*
  - Halcyon albonotata*
  - Halcyon australasia*
  - Halcyon ruficollaris*
  - Halcyon gambieri*
  - Halcyon godeffroyi*
  - Halcyon bougainvillei*

<i>Halcyon hombroni</i>	Blue-capped Wood Kingfisher	K*	Philippines
<i>Tanyptera riedelii</i>	Blak Paradise Kingfisher	K*	Indonesia
<b>Family Momotidae</b>			
<i>Electron carinatum</i>	Keel-billed Motmot	K*	Central America
<b>Family Coraciidae</b>			
<i>Brachypteracias leptosomus</i>	Short-legged Ground Roller	R	Madagascar
<i>Brachypteracias squamiger</i>	Scaly Ground Roller	R	Madagascar
<i>Atelornis crossleyi</i>	Rufous-headed Ground Roller	R	Madagascar
<i>Uratelornis chimaera</i>	Long-tailed Ground Roller	R	Madagascar
<b>Family Bucerotidae</b>			
<i>Ptilolaemus tickelli</i>	Brown Hornbill	K*	Burma, India, Laos, Thailand, Viet Nam
<i>Aceros nipalensis</i>	Rufous-necked Hornbill	K*	Bhutan, Burma, India, Kampuchea, Laos, Nepal, Thailand, Viet Nam
<i>Aceros subruficollis</i>	Plain-pouched Hornbill	K*	Burma, Indonesia, Malaysia, Thailand
<i>Aceros narcondami</i>	Narcondam Hornbill	K*	Andaman Is (India)
<i>Rhyticeros everetti</i>	Sumba Hornbill	K*	Indonesia
<i>Anthracoceros montani</i>	Sulu Hornbill	K*	Philippines
<i>Rhinoplax vigil</i>	Helmeted Hornbill	I	Burma, Indonesia, Malaysia, Thailand
<b>Family Galbulidae</b>			
<i>Jacamaralcyon tridactyla</i>	Three-toed Jacamar	K*	Brazil
<b>Family Capitonidae</b>			
<i>Capito hypoleucus</i>	White-mantled Barbet	K*	Colombia
<i>Semnorhis ramphastinus</i>	Toucan Barbet	V	Colombia, Ecuador
<i>Megalaima javensis</i>	Black-banded Barbet	K*	Indonesia
<i>Pogoniulus makawai</i>	White-chested Tinkerbird	I	Zambia
<b>Family Indicatoridae</b>			
<i>Melignomon eisentrauti</i>	Yellow-footed Honeyguide	K	Cameroon, Ghana, Liberia
<b>Family Ramphastidae</b>			
<i>Aulacorhynchus huallagae</i>	Yellow-browed Toucanet	K*	Peru



**Family Picidae**

<i>Picumnus steindachneri</i>	Speckle-chested Piculet	K*	Peru
<i>Picoides borealis</i>	Red-cockaded Woodpecker	V	U.S.A.
<i>Dryocopus galeatus</i>	Helmeted Woodpecker	E	Argentina, Brazil, Paraguay
<i>Dryocopus schulzi</i>	Black-bodied Woodpecker	K*	Argentina, Paraguay
<i>Campephilus robustus</i>	Robust Woodpecker	K*	Argentina, Brazil, Paraguay
<i>Campephilus principalis</i>	Ivory-billed Woodpecker	E	Cuba, U.S.A.
<i>Campephilus imperialis</i>	Imperial Woodpecker	E	Mexico
<i>Picus rabieri</i>	Red-collared Woodpecker	K*	Laos, Viet Nam
<i>Sapheopipo noguchii</i>	Okinawa Woodpecker	E	Japan

**Order PASSERIFORMES****Family Eurylaimidae**

<i>Pseudocalyptomena graueri</i>	African Green Broadbill	R	Uganda, Zaire
<i>Eurylaimus steeri</i>	Wattled Broadbill	K*	Philippines

**Family Dendrocolaptidae**

<i>Xiphocolaptes franciscanus</i>	Sneethlage's Woodcreeper	K*	Brazil
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**Family Furnariidae**

<i>Cinclodes palliatus</i>	White-bellied Cinclodes	K*	Peru
<i>Cinclodes aricomae</i>	Stout-billed Cinclodes	K*	Peru
<i>Aphrastura masafuerae</i>	Masafuera Rayadito	K*	Chile
<i>Leptasthenura xenothorax</i>	White-browed Tit Spinetail	K*	Peru
<i>Synallaxis infuscata</i>	Plain Spinetail	K*	Brazil
<i>Synallaxis courseni</i>	Apurimac Spinetail	K*	Peru
<i>Synallaxis cherriei</i>	Chestnut-throated Spinetail	K*	Brazil, Ecuador, Peru
<i>Synallaxis zimneri</i>	Russet-bellied Spinetail	K*	Peru
<i>Asthenes anthoides</i>	Austral Canastero	K*	Argentina, Chile
<i>Asthenes urubambensis</i>	Line-fronted Canastero	K*	Peru
<i>Thripophaga cherriei</i>	Orinoco Softtail	K*	Venezuela
<i>Thripophaga macroura</i>	Striated Softtail	K*	Brazil
<i>Phacellodomus dorsalis</i>	Chestnut-backed Thornbird	K*	Peru
<i>Phacellodomus dendrocolaptoides</i>	Canebrake Groundcreeper	K*	Argentina, Brazil, Paraguay
<i>Margarornis tatei</i>	White-throated Barbtail	K*	Venezuela
<i>Philydor amaurotis</i>	White-browed Foliage-gleaner	K*	Argentina, Brazil
<i>Philydor novaesi</i>	Alagoas Foliage-gleaner	K*	Brazil
<i>Philydor dimidiatus</i>	Russet-mantled Foliage-gleaner	K*	Brazil, Paraguay
<i>Automolus ruficollis</i>	Rufous-necked Foliage-gleaner	K*	Ecuador, Peru



**Family Rhinocryptidae**

*Merulaxis stresemanni*  
*Scytalopus novacapitalis*

Stresemann's Bristlefront  
Brasilía Tapaculo

I Brazil  
I Brazil

**Family Cotingidae**

*Laniisoma elegans*

Shrike-like Cotinga

K\* Bolivia, Brazil, Colombia, Ecuador, Peru,  
Venezuela

*Tijuca condita*

Grey-winged Cotinga

K\* Brazil

*Carpornis melanocephalus*

Black-headed Berryeater

K\* Brazil

*Ampelion stresemanni*

White-cheeked Cotinga

K\* Peru

*Iodopleura pipra*

Buff-throated Purpleuft

K\* Brazil

*Calyptura cristata*

Kinglet Cotinga

I Brazil

*Lipaugus lanioides*

Cinnamon-vented Piha

K\* Brazil

*Cotinga ridgwayi*

Turquoise Cotinga

K\* Costa Rica, Panama

*Cotinga maculata*

Banded Cotinga

V Brazil

*Xipholena atropurpurea*

White-winged Cotinga

V Brazil

*Carpodectes antoniae*

Yellow-billed Cotinga

K\* Costa Rica, Panama

*Carpodectes hopkei*

White Cotinga

K\* Colombia, Ecuador, Panama

*Cephalopterus glabricollis*

Bare-necked Umbrellabird

K\* Costa Rica, Panama

*Cephalopterus penduliger*

Long-wattled Umbrellabird

V Colombia, Ecuador

**Family Pipridae**

*Piprites pileatus*

Black-capped Manakin

K\* Argentina, Brazil

*Pipra vilasboasi*

Golden-crowned Manakin

K\* Brazil

**Family Tyrannidae**

*Agriornis albicauda*

White-tailed Shrike Tyrant

K\* Argentina, Bolivia, Chile, Ecuador, Peru

*Yelapa risoria*

Strange-tailed Tyrant

K\* Argentina, Brazil, Paraguay, Uruguay

*Xenotriccus calizonus*

Belted Flycatcher

K\* Guatemala, Mexico

*Ceratotriccus furcatus*

Fork-tailed Pygmy Tyrant

K\* Brazil

*Idioptilon kaempferi*

Kaempfer's Tody Tyrant

K\* Brazil

*Pogonotriccus eximius*

Southern Bristle Tyrant

K\* Argentina, Brazil, Paraguay

*Pogonotriccus venezuelanus*

Venezuelan Bristle Tyrant

K\* Venezuela

*Anairetes alpinus*

Ash-breasted Tit Tyrant

K\* Bolivia, Peru

*Culicivora caudacuta*

Sharp-tailed Tyrant

K\* Argentina, Bolivia, Brazil, Paraguay

*Polystictus pectoralis*

Bearded Tachuri

K\* Argentina, Bolivia, Brazil, Colombia,  
Guyana, Paraguay, Suriname, Venezuela

<i>Polystictus superciliaris</i>	Grey-backed Tachuri	K*	Brazil
<i>Phylloscartes roquettei</i>	Minas Gerais Tyrannulet	K*	Brazil
<i>Phylloscartes paulistus</i>	Sao Paulo Tyrannulet	K*	Brazil, Paraguay
<i>Phylloscartes ceciliae</i>	Long-tailed Tyrannulet	K*	Brazil
<i>Todirostrum viridanum</i>	Short-tailed Tody Flycatcher	K*	Venezuela
<i>Platyrinchus leucorhynchus</i>	Russet-winged Spadebill	K*	Brazil, Paraguay
<i>Aphanoircicus capitalis</i>	Tawny-chested Flycatcher	K*	Costa Rica, Nicaragua
<i>Empidonax griseipectus</i>	Grey-breasted Flycatcher	K*	Ecuador, Peru
<i>Alectrurus tricolor</i>	Cock-tailed Tyrant	K*	Argentina, Bolivia, Brazil, Paraguay
<b>Family Phytotomidae</b>			
<i>Phytotoma raimondii</i>	Peruvian Plantcutter	K*	Peru
<b>Family Pittidae</b>			
<i>Pitta schneideri</i>	Schneider's Pitta	K*	Indonesia
<i>Pitta kochi</i>	Whiskered Pitta	K*	Philippines
<i>Pitta ellioti</i>	Bar-bellied Pitta	K*	Kampuchea, Laos, Viet Nam
<i>Pitta gurneyi</i>	Gurney's Pitta	E	Burma, Thailand
<i>Pitta baudii</i>	Blue-headed Pitta	K*	Indonesia
<i>Pitta nympha</i>	Fairy Pitta	K*	China, Japan, Korea, Borneo, Taiwan, Indochina
<i>Pitta superba</i>	Superb Pitta	K*	Manus I. (Papua New Guinea)
<i>Pitta anerythra</i>	Solomon Islands Pitta	K*	Papua New Guinea, Solomon Is
<b>Family Acanthisittidae</b>			
<i>Xenicus longipes</i>	New Zealand Bush Wren	E	New Zealand
<b>Family Philepittidae</b>			
<i>Neodrepanis hypoxantha</i>	Yellow-bellied Sunbird-asisy	I	Madagascar
<b>Family Atrichornithidae</b>			
<i>Atrichornis rufescens</i>	Rufous Scrub-bird	R	Australia
<i>Atrichornis clamosus</i>	Noisy Scrub-bird	E	Australia
<b>Family Alaudidae</b>			
<i>Mirafra asi</i>	Ash's Lark	K	Somalia
<i>Mirafra degodiensis</i>	Degodi Lark	K	Ethiopia
<i>Heteromirafra archeri</i>	Somali Long-clawed Lark	I	Somalia
<i>Heteromirafra sidamoensis</i>	Sidamo Long-clawed Lark	I	Ethiopia

<i>Heteromirafra ruddi</i>	South African Long-clawed Lark	I	Lesotho, South Africa, Swaziland
<i>Spizocorys fringillarlis</i>	Botha's Lark	I	South Africa
<i>Alauda razae</i>	Raso Lark	E	Raso (Cape Verde Is)
<b>Family Hirundinidae</b>			
<i>Pseudochelidon sirintarae</i>	White-eyed River Martin	I	Thailand
<i>Callichelidon cyaneoviridis</i>	Bahama Swallow	K*	Bahama Is
<i>Hirundo megaensis</i>	White-tailed Swallow	R	Ethiopia
<i>Hirundo perditia</i>	Red Sea Cliff Swallow	K*	Sudan
<b>Family Motacillidae</b>			
<i>Anthus sokokensis</i>	Sokoke Pipit	V	Kenya, Tanzania
<i>Anthus chloris</i>	Yellow-breasted Pipit	K*	Lesotho, South Africa
<i>Anthus chacoensis</i>	Chaco Pipit	K*	Argentina, Paraguay
<i>Anthus nattereri</i>	Ochre-breasted Pipit	K*	Argentina, Brazil, Paraguay
<b>Family Campephagidae</b>			
<i>Coracina typica</i>	Mauritius Cuckoo-shrike	V	Mauritius
<i>Coracina newtoni</i>	Reunion Cuckoo-shrike	V	Réunion (France)
<i>Coracina coerulescens</i>	Blackish Cuckoo-shrike	K*	Philippines
<i>Coracina ostenta</i>	White-winged Cuckoo-shrike	K*	Philippines
<i>Campephaga lobata</i>	Western Wattled Cuckoo-shrike	V	West Africa
<b>Family Pycnonotidae</b>			
<i>Pycnonotus nieuwenhuisi</i>	Wattled Bulbul	K*	Indonesia
<i>Pycnonotus leucolepis</i>	Spot-winged Bulbul	K*	Liberia
<i>Chlorocichla prigoginei</i>	Prigogine's Greenbul	V	Zaire
<i>Phyllastrephus apperti</i>	Appert's Greenbul	R	Madagascar
<i>Phyllastrephus tenebrosus</i>	Dusky Greenbul	R	Madagascar
<i>Phyllastrephus cinereiceps</i>	Grey-crowned Greenbul	R	Madagascar
<i>Criniger olivaceus</i>	Yellow-throated Olive Greenbul	V	West Africa
<i>Hypsipetes siquijorensis</i>	Mottled-breasted Bulbul	K*	Philippines
<i>Hypsipetes olivaceus</i>	Mauritius Black Bulbul	V	Mauritius
<b>Family Laniidae</b>			
<i>Prionops gabela</i>	Gabela Helmet-shrike	I	Angola
<i>Malakonotus kupeensis</i>	Mount Kupe Bush-shrike	I	Cameroon
<i>Malakonotus gladiator</i>	Green-breasted Bush-shrike	R	Cameroon, Niger
<i>Malakonotus alius</i>	Uluguru Bush-shrike	R	Tanzania

<i>Malaconotus monteiri</i>	Monteiro's Bush-shrike	I	Angola, Cameroon
<i>Lanius newtoni</i>	Sao Tomé Fiscal Shrike	I	Sao Tomé
<b>Family Vangidae</b>			
<i>Xenopirostris damii</i>	Van Dam's Vanga	R	Madagascar
<i>Xenopirostris polleni</i>	Pollen's Vanga	R	Madagascar
<b>Family Cinclidae</b>			
<i>Cinclus schulzi</i>	Rufous-throated Dipper	I	Argentina
<b>Family Troglodytidae</b>			
<i>Hylorchilus sumichrasti</i>	Slender-billed Wren	K*	Mexico
<i>Cistothorus apolinari</i>	Apolinar's Wren	V	Colombia
<i>Ferminia cerverei</i>	Zapata Wren	R	Cuba
<i>Thryothorus nicefori</i>	Niceforo's Wren	K*	Colombia
<i>Troglodytes tanneri</i>	Clarion Wren	K*	Mexico
<b>Family Mimidae</b>			
<i>Mimodes graysoni</i>	Socorro Mockingbird	K*	Mexico
<i>Ramphocinclus brachyurus</i>	White-breasted Thrasher	E	Martinique, St. Lucia
<b>Family Muscicapidae</b>			
<i>Brachypteryx hyperythra</i>	Rusty-bellied Shortwing	K*	China, India
<i>Swynnertonia swynnertoni</i>	Swynnerton's Forest Robin	R	Mozambique, Tanzania, Zimbabwe
<i>Sheppardia gabela</i>	Gabela Akalat	I	Angola
<i>Sheppardia gunningi</i>	East Coast Akalat	R	Kenya, Mozambique, Tanzania
<i>Erithacus ruficeps</i>	Rufous-headed Robin	K*	China, Malaysia
<i>Erithacus obscurus</i>	Black-throated Robin	K*	China, Thailand
<i>Cossypha heinrichi</i>	White-headed Robin-chat	I	Angola, Zaire
<i>Modulatrix orostruthus</i>	Dappled Mountain Robin	R	Mozambique, Tanzania
<i>Dryocichloides montanus</i>	Usambara Ground Robin	R	Tanzania
<i>Dryocichloides lowei</i>	Iringa Ground Robin	R	Tanzania
<i>Alethe choloensis</i>	Thyolo Alethe	E	Malawi, Mozambique
<i>Copsychus sechellarum</i>	Seychelles Magpie-robin	E	Seychelles
<i>Copsychus cebuensis</i>	Black Shama	K*	Philippines
<i>Rhyacornis bicolor</i>	Luzon Redstart	K*	Philippines
<i>Cinclidium frontale</i>	Blue-fronted Robin	K*	China, India, Laos, Nepal, Thailand, Viet Nam
<i>Cochoa beccari</i>	Sumatran Cochoa	K*	Indonesia

<i>Cochoa azurea</i>	Javan Cochoa	K*	Indonesia
<i>Myadestes leucogenys</i>	Rufous-brown Solitaire	K*	Brazil, Ecuador, Guyana, Peru, Venezuela
<i>Myadestes myadestinus</i>	Kamoa	K*	Hawaiian Is (U.S.A.)
<i>Myadestes lanaiensis</i>	Olomao	K*	Hawaiian Is (U.S.A.)
<i>Myadestes palmeri</i>	Puaiohi	E	Hawaiian Is (U.S.A.)
<i>Saxicola macrorhyncha</i>	White-browed Bushchat	K*	India, Pakistan
<i>Saxicola insignis</i>	Hodgson's Bushchat	K*	China, India, Mongolia, Nepal
<i>Saxicola dacotiae</i>	Fuerteventura Stonechat	R	Canary Is (Spain)
<i>Monticola bensoni</i>	Benson's Rockthrush	K	Madagascar
<i>Myiophoneus blighi</i>	Sri Lanka Whistling-thrush	K*	Sri Lanka
<i>Geomaliala heinrichi</i>	Geomaliala	K*	Indonesia
<i>Zoothera schistacea</i>	Slaty-backed Thrush	K*	Indonesia
<i>Zoothera erythronola</i>	Red-backed Thrush	K*	Indonesia
<i>Zoothera peronii</i>	Orange-banded Thrush	K*	Indonesia
<i>Zoothera everetti</i>	Everett's Thrush	K*	Indonesia, Malaysia
<i>Zoothera spioptera</i>	Spot-winged Thrush	K*	Indonesia, Sri Lanka
<i>Zoothera machiki</i>	Fawn-breasted Thrush	K*	Sri Lanka
<i>Zoothera amami</i>	Amami Thrush	K*	Indonesia
<i>Zoothera margaratae</i>	San Cristobal Thrush	K*	Japan
<i>Turdus oberlaenderi</i>	Forest Ground-thrush	K*	Solomon Is
<i>Turdus kibalensis</i>	Kibale Ground-thrush	R	Madagascar
<i>Turdus fischeri</i>	Spotted Ground-thrush	I	Uganda
<i>Turdus helleri</i>	Taita Thrush	R	East Africa, South Africa, Zaire
<i>Turdus menachensis</i>	Yemen Thrush	E	Kenya
<i>Turdus feae</i>	Grey-sided Thrush	K*	North Yemen, Saudi Arabia
<i>Pellorneum palustre</i>	Marsh Babbler	K*	Burma, China, India, Thailand
<i>Trichastoma perspicillatum</i>	Black-browed Babbler	K*	Bangladesh, India
<i>Leonardina woodi</i>	Bagobo Babbler	K*	Indonesia
<i>Jabouillella danjoui</i>	Short-tailed Scimitar-babbler	K*	Philippines
<i>Ptilocichla leucogrammica</i>	Bornean Wren-babbler	K*	Viet Nam
<i>Ptilocichla mindanensis</i>	Striated Wren-babbler	K*	Indonesia, Malaysia
<i>Napothera rabori</i>	Rabor's Wren-babbler	K*	Philippines
<i>Spelaeornis badeigularis</i>	Rusty-throated Wren-babbler	K*	Philippines
<i>Stachyris rodolphei</i>	Deignan's Babbler	K*	India
<i>Stachyris striata</i>	Striped Babbler	K*	Thailand
<i>Stachyris grammiceps</i>	White-breasted Babbler	K*	Philippines
<i>Stachyris herberti</i>	Sooty Babbler	K*	Indonesia
<i>Micromacronus leytenis</i>	Miniature Tit-babbler	K*	Laos
		K*	Philippines

<i>Moupinia altirostris</i>	Jerdon's Moupinia	K*	Burma, India, Pakistan
<i>Turdoides hindei</i>	Hinde's Pied Babbler	V	Kenya
<i>Garrulax cinereifrons</i>	Ashy-headed Laughingthrush	K*	Sri Lanka
<i>Garrulax millei</i>	Black-hooded Laughingthrush	K*	Viet Nam
<i>Garrulax maesi</i>	Grey Laughingthrush	K*	China, Laos
<i>Garrulax vassali</i>	White-cheeked Laughingthrush	K*	Laos, Viet Nam
<i>Garrulax galbanus</i>	Yellow-throated Laughingthrush	K*	Bangladesh, China, India
<i>Garrulax bieti</i>	White-speckled Laughingthrush	K*	China
<i>Garrulax cachinnans</i>	Nilgiri Laughingthrush	K*	India
<i>Garrulax yersini</i>	Collared Laughingthrush	K*	Viet Nam
<i>Garrulax formosus</i>	Red-winged Laughingthrush	K*	China, Viet Nam
<i>Liocichla omeiensis</i>	Omei Shan Liocichla	K*	China
<i>Alcippe variegaticeps</i>	Gold-fronted Fulvetta	K*	China
<i>Liopitilus gilberti</i>	White-throated Mountain Babbler	R	Cameroon, Nigeria
<i>Crocias langbianis</i>	Grey-crowned Crocias	K*	Viet Nam
<i>Crossleyia xanthophrys</i>	Madagascar Yellowbrow	I	Madagascar
<i>Paradoxornis ruficeps</i>	Greater Rufous-headed Parrotbill	K*	Bhutan, Burma, China, India, Laos, Viet Nam
<i>Paradoxornis flavirostris</i>	Black-breasted Parrotbill	K*	India, Burma, China
<i>Paradoxornis heudei</i>	Eye-browed Parrotbill	I	China, U.S.S.R.
<i>Picathartes gymnocephalus</i>	White-necked Picathartes	V	West Africa
<i>Picathartes oreas</i>	Grey-necked Picathartes	R	Cameroon, Equatorial Guinea, Gabon, Nigeria
<i>Polioptila lembeyei</i>	Cuban Gnatcatcher	K*	Cuba
<i>Bradypterus graueri</i>	Grauer's Swamp Warbler	V	Burundi, Rwanda, Uganda, Zaire
<i>Bradypterus grandis</i>	Dja River Warbler	K	Cameroon, Gabon
<i>Bradypterus major</i>	Large-billed Bush Warbler	K*	China, India, Nepal, Pakistan
<i>Bradypterus palliseri</i>	Sri Lanka Bush Warbler	K*	Sri Lanka
<i>Acrocephalus paludicola</i>	Aquatic Warbler	K*	Western Palearctic, southern Africa
<i>Acrocephalus sorghophilus</i>	Speckled Warbler	K*	China
<i>Acrocephalus rehsei</i>	Nauru Warbler	K*	Nauru
<i>Acrocephalus familiaris</i>	Nihoa Warbler	R	Hawaiian Is (U.S.A.)
<i>Acrocephalus rodericanus</i>	Rodrigues Warbler	E	Rodrigues (Mauritius)
<i>Acrocephalus sechellensis</i>	Seychelles Warbler	R	Seychelles
<i>Nesillas aldobranus</i>	Aldabra Warbler	E	Aldabra (Seychelles)
<i>Chloropeta gracilirostris</i>	Papyrus Yellow Warbler	R	Burundi, Kenya, Rwanda, Uganda, Zaire, Zambia
<i>Phylloscopus amoenus</i>	Kolombangara Warbler	K*	Solomon Is
<i>Cisticola haesiata</i>	Socotra Cisticola	K*	Socotra (South Yemen)



<i>Cisticola restricta</i>	Tana River Cisticola	K	Kenya
<i>Prinia fluvialtilis</i>	River Prinia	K	Cameroon, Chad, Nigeria
<i>Prinia burnesi</i>	Long-tailed Prinia	K*	India, Pakistan
<i>Apalis chariessa</i>	White-winged Apalis	K*	Kenya, Malawi, Mozambique, Tanzania
<i>Apalis karamojae</i>	Karamoja Apalis	K	Tanzania, Uganda
<i>Apalis argentea</i>	Kungwe Apalis	R	Burundi, Rwanda, Tanzania, Zaire
<i>Apalis kaboboensis</i>	Kabobo Apalis	R	Zaire
<i>Apalis moreaui</i>	Long-billed Apalis	R	Mozambique, Tanzania
<i>Bathmocercus winifredae</i>	Mrs Moreau's Warbler	R	Tanzania
<i>Eremomela turneri</i>	Turner's Eremomela	R	Kenya, Uganda, Zaire
<i>Macrosphenus pulitzeri</i>	Pulitzer's Longbill	I	Angola
<i>Amaurocichla bocagii</i>	Sao Tomé Short-tail	I	Sao Tomé
<i>Chaetornis striatus</i>	Bristled Grass Warbler	K*	India, Nepal
<i>Megalurus pryeri</i>	Marshland Warbler	K*	China, Japan
<i>Megalurus albolimbatus</i>	Fly River Grassbird	K*	Papua New Guinea
<i>Cichlornis whitleyi</i>	Whitney's Thicket Warbler	K*	Solomon Is, Vanuatu
<i>Trichocichla rufa</i>	Long-legged Warbler	E	Fiji
<i>Malurus coronatus</i>	Purple-crowned Fairy-wren	K*	Australia
<i>Amytornis textilis</i>	Thick-billed Grass-wren	K*	Australia
<i>Amytornis goyderi</i>	Eyrean Grass-wren	I	Australia
<i>Amytornis barbatus</i>	Grey Grass-wren	K*	Australia
<i>Amytornis dorotheae</i>	Carpentarian Grass-wren	K*	Australia
<i>Dasyornis brachypterus</i>	Eastern Bristlebird	K*	Australia
<i>Dasyornis longirostris</i>	Western Bristlebird	K*	Australia
<i>Aphelocephala pectoralis</i>	Chestnut-breasted Whiteface	R	Australia
<i>Melaenornis annamarulae</i>	Nimba Flycatcher	K*	Australia
<i>Rhinomyias addita</i>	Streaky-breasted Jungle-flycatcher	I	Ivory Coast, Liberia
<i>Rhinomyias brunneata</i>	Brown-chested Jungle-flycatcher	K*	Indonesia
<i>Rhinomyias colonus</i>	Henna-tailed Jungle-flycatcher	K*	China, India, Indonesia, Malaysia
<i>Rhinomyias albigularis</i>	White-throated Jungle-flycatcher	K*	Indonesia
<i>Rhinomyias insignis</i>	White-browed Jungle-flycatcher	K*	Philippines
<i>Ficedula bonthaina</i>	Lompobattang Flycatcher	K*	Philippines
<i>Ficedula harterti</i>	Sumba Flycatcher	K*	Indonesia
<i>Ficedula crypta</i>	Cryptic Flycatcher	K*	Indonesia
<i>Ficedula henrichi</i>	Damar Blue Flycatcher	K*	Philippines
<i>Ficedula timorensis</i>	Black-banded Flycatcher	K*	Indonesia
<i>Cyornis sandfordi</i>	Matinan Flycatcher	K*	Indonesia
<i>Cyornis rueckii</i>	Rueck's Blue Flycatcher	K*	Indonesia
<i>Cyornis herioti</i>	Blue-breasted Flycatcher	K*	Indonesia

<i>Muscicapa lendu</i>	Chapin's Flycatcher	R	Kenya, Zaire, Uganda
<i>Humbolita flavirostris</i>	Grand Comoro Flycatcher	R	Comoro Is
<i>Newtonia fanovanae</i>	Red-tailed Newtonia	I	Madagascar
<i>Petroica traversi</i>	Chatham Island Black Robin	E	Chatham Is (New Zealand)
<i>Platysteira laticincta</i>	Banded Wattle-eye	E	Cameroon
<i>Terpsiphone corvina</i>	Seychelles Black Paradise-flycatcher	R	Seychelles
<i>Eurichomyias rowleyi</i>	Caerulean Flycatcher	K*	Indonesia
<i>Hypothymis helena</i>	Short-crested Monarch	K*	Philippines
<i>Hypothymis coelestis</i>	Celestial Monarch	K*	Philippines
<i>Pomarea dimidiata</i>	Rarotonga Flycatcher	V	Cook Is
<i>Pomarea nigra</i>	Tahiti Monarch	E	Society Is (France)
<i>Pomarea mendozae</i>	Marquesas Monarch	K*	Marquesas Is (France)
<i>Mayornis versicolor</i>	Versicolour Flycatcher	K*	Fiji
<i>Clytorhynchus hamlini</i>	Rennell Shrikebill	K*	Solomon Is
<i>Metabolus rugensis</i>	Truk Monarch	R	Federated States of Micronesia (U.S.A.)
<i>Monarcha everetti</i>	White-tipped Monarch	K*	Indonesia
<i>Monarcha boanensis</i>	Black-chinned Monarch	K*	Indonesia
<i>Monarcha sacerdotum</i>	Flores Monarch	K*	Indonesia
<i>Monarcha leucurus</i>	White-tailed Monarch	K*	Indonesia
<i>Monarcha brehmii</i>	Biak Monarch	K*	Indonesia
<i>Myiagra freycineti</i>	Guam Flycatcher	K*	Guam (U.S.A.)
<i>Myiagra atra</i>	Biak Black Flycatcher	K*	Indonesia
<i>Rhipidura superflua</i>	Tawny-backed Fantail	K*	Indonesia
<i>Rhipidura mathiae</i>	St. Matthias Fantail	K*	Papua New Guinea
<i>Pachycephala meyeri</i>	Vogelkop Whistler	K*	Indonesia
<i>Colluricincla sanghirensis</i>	Sangihe Shrike-thrush	K*	Indonesia
<i>Turnagra capensis</i>	New Zealand Thrush	K*	New Zealand
<b>Family Paridae</b>			
<i>Parus nuchalis</i>	White-winged Tit	K*	India
<i>Parus holsti</i>	Yellow Tit	K*	Taiwan
<b>Family Sittidae</b>			
<i>Sitta victoriae</i>	White-browed Nuthatch	K*	Burma
<i>Sitta whiteheadi</i>	Corsican Nuthatch	K*	Corsica (France)
<i>Sitta ledanti</i>	Algerian Nuthatch	R	Algeria
<i>Sitta yunnanensis</i>	Black-masked Nuthatch	K*	China
<i>Sitta solangiae</i>	Yellow-billed Nuthatch	K*	Viet Nam

<i>Sitta magna</i>	Giant Nuthatch	K*	Burma, China, Thailand
<i>Sitta formosa</i>	Beautiful Nuthatch	K*	Bhutan, Burma, China, India, Laos, Viet Nam
<b>Family Rhabdornithidae</b>			
<i>Rhabdornis grandis</i>	Long-billed Rhabdornis	K*	Philippines
<b>Family Dicaeidae</b>			
<i>Dicaeum everetti</i>	Brown-backed Flowerpecker	K*	Indonesia, Malaysia
<i>Dicaeum vincens</i>	Legge's Flowerpecker	K*	Sri Lanka
<i>Pardalotus quadragintus</i>	Forty-spotted Pardalote	K*	Australia
<b>Family Nectariniidae</b>			
<i>Anthreptes rubritorques</i>	Banded Green Sunbird	R	Tanzania
<i>Anthreptes pallidigaster</i>	Amani Sunbird	R	Kenya, Tanzania
<i>Dreptes thomensis</i>	Giant Sunbird	K*	Sao Tomé
<i>Nectarinia buettikoferi</i>	Apricot-breasted Sunbird	K*	Indonesia
<i>Nectarinia rockefelleri</i>	Rockefeller's Sunbird	R	Zaire
<i>Nectarinia prigoginei</i>	Marungu Sunbird	E	Zaire
<i>Nectarinia rufipennis</i>	Rufous-winged Sunbird	R	Tanzania
<i>Aethopyga duyvenbodei</i>	Elegant Sunbird	K*	Indonesia
<b>Family Zosteropidae</b>			
<i>Zosterops flava</i>	Javan White-eye	K*	Indonesia, Malaysia
<i>Zosterops meeki</i>	Sudest White-eye	K*	Papua New Guinea
<i>Zosterops kuehni</i>	Ambon Yellow White-eye	K*	Indonesia
<i>Zosterops luteirostris</i>	Gezo White-eye	K*	Solomon Is
<i>Zosterops sanctaecrucis</i>	Nendo White-eye	K*	Solomon Is
<i>Zosterops minuta</i>	Small Lifou White-eye	K*	Loyalty Is (France)
<i>Zosterops albobularis</i>	White-breasted White-eye	E	Norfolk I. (Australia)
<i>Zosterops inornata</i>	Large Lifou White-eye	K*	Loyalty Is (France)
<i>Zosterops modestus</i>	Seychelles White-eye	E	Seychelles
<i>Speirops brunneus</i>	Fernando Po Speirops	R	Bioko (Equatorial Guinea)
<i>Speirops leucophaeus</i>	Principe Speirops	K*	Principe (Sao Tomé)
<i>Zosterops mouroniensis</i>	Mount Karthala White-eye	R	Comoro Is
<i>Zosterops chloronothus</i>	Mauritius Olive White-eye	V	Mauritius
<i>Woodfordia tacertosa</i>	Sanford's White-eye	K*	Solomon Is
<i>Rukia ruki</i>	Great Truk White-eye	E	Federated States of Micronesia (U.S.A.)

<i>Rukia longirostris</i>	Great Pohnpei White-eye	R	Federated States of Micronesia (U.S.A.)
<i>Madanga ruficollis</i>	Rufous-throated White-eye	K*	Indonesia
<i>Lophozosterops dohertyi</i>	Crested White-eye	K*	Indonesia
<i>Oculocincta squamifrons</i>	Pygmy White-eye	K*	Indonesia, Malaysia
<i>Heleia muelleri</i>	Spot-breasted White-eye	K*	Indonesia
<b>Family Meliphagidae</b>			
<i>Myzomela kuehni</i>	Crimson-hooded Honeyeater	K*	Indonesia
<i>Meliphaga vicina</i>	Sudest Meliphaga	K*	Papua New Guinea
<i>Notiomystis cincta</i>	Stitchbird	V	New Zealand
<i>Philemon brassi</i>	Brass's Friarbird	K*	Indonesia
<i>Philemon fuscicapillus</i>	Dusky Friarbird	K*	Indonesia
<i>Philemon moluccensis</i>	Black-faced Friarbird	K*	Indonesia, Papua New Guinea
<i>Melidectes princeps</i>	Long-bearded Melidectes	K*	Indonesia, Papua New Guinea
<i>Moho braccatus</i>	Kauai Oo	E	Hawaiian Is (U.S.A.)
<i>Moho bishopi</i>	Bishop's Oo	K*	Hawaiian Is (U.S.A.)
<i>Xanthomyza phrygia</i>	Regent Honeyeater	K*	Australia
<i>Manorina melanotis</i>	Black-eared Miner	K*	Australia
<b>Family Emberizidae</b>			
<i>Emberiza jankowskii</i>	Jankowski's Bunting	K*	China, North Korea, U.S.S.R.
<i>Emberiza sulphurata</i>	Japanese Yellow Bunting	K*	China, Japan, Philippines, Taiwan
<i>Ammodramus baileyi</i>	Sierra Madre Sparrow	K*	Mexico
<i>Torreornis inexpectata</i>	Zapata Sparrow	R	Cuba
<i>Melanodera melanodera</i>	Black-throated Finch	K*	Argentina, Chile
<i>Rowettia goughensis</i>	Gough Bunting	R	Gough Island (U.K.)
<i>Nesospiza acunhae</i>	Tristan Bunting	R	Tristan da Cunha group (U.K.)
<i>Nesospiza wilkinsi</i>	Grosbeak Bunting	R	Tristan da Cunha group (U.K.)
<i>Xenospingus concolor</i>	Slender-billed Finch	K*	Chile, Peru
<i>Incaspiza ortizi</i>	Grey-winged Inca Finch	K*	Peru
<i>Poospiza rubecula</i>	Rufous-breasted Warbling Finch	K*	Peru
<i>Poospiza garleppi</i>	Cochabamba Mountain Finch	K*	Bolivia
<i>Poospiza baeri</i>	Tucuman Mountain Finch	K*	Argentina
<i>Sporophila frontalis</i>	Buffy-throated Seedeater	K*	Argentina, Brazil, Paraguay
<i>Sporophila falcirostris</i>	Temminck's Seedeater	K*	Argentina, Brazil
<i>Sporophila insulata</i>	Tumaco Seedeater	I	Colombia
<i>Sporophila hypochroma</i>	Rufous-rumped Seedeater	K*	Argentina, Bolivia
<i>Sporophila ruficollis</i>	Dark-throated Seedeater	K*	Argentina, Bolivia, Brazil, Paraguay, Uruguay

<i>Sporophila cinnamomea</i>	Chestnut Seedeater	K*	Argentina, Brazil, Paraguay
<i>Sporophila melanogaster</i>	Black-bellied Seedeater	K*	Brazil
<i>Amaurospiza moesta</i>	Blackish-blue Seedeater	K*	Argentina, Brazil
<i>Camarhynchus pauper</i>	Floreana Tree Finch	K*	Ecuador
<i>Camarhynchus heliobates</i>	Mangrove Finch	R	Ecuador
<i>Atlapetes flaviceps</i>	Olive-headed Brush Finch	I	Colombia
<i>Atlapetes pallidiceps</i>	Pale-headed Brush Finch	K*	Ecuador
<i>Coryphaspiza melanotis</i>	Black-masked Finch	K*	Argentina, Bolivia, Brazil, Paraguay
<i>Gubernatrix cristata</i>	Yellow Cardinal	K*	Argentina, Brazil, Uruguay
<i>Saltator nigriceps</i>	Black-cowled Saltator	K*	Ecuador, Peru
<i>Saltator cinctus</i>	Masked Saltator	K*	Ecuador
<i>Conothraupis mesoleuca</i>	Cone-billed Tanager	K*	Brazil
<i>Chlorospingus flavovirens</i>	Yellow-green Bush Tanager	K*	Colombia, Ecuador
<i>Nemosia rourei</i>	Cherry-throated Tanager	E	Brazil
<i>Habia atrimaxillaris</i>	Black-cheeked Ant Tanager	K*	Costa Rica
<i>Habia gutturalis</i>	Sooty Ant Tanager	K*	Colombia
<i>Buhraupis melanochlamys</i>	Black-and-gold Tanager	K*	Colombia
<i>Buhraupis aureocincta</i>	Gold-ringed Tanager	K*	Colombia
<i>Buhraupis aureodorsalis</i>	Golden-backed Mountain Tanager	K*	Peru
<i>Euphonia chalybea</i>	Green-throated Euphonia	K*	Argentina, Brazil, Paraguay
<i>Chlorochrysa nitidissima</i>	Multicoloured Tanager	K*	Colombia
<i>Tangara cabanisi</i>	Azure-rumped Tanager	I	Guatemala, Mexico
<i>Tangara fastuosa</i>	Seven-coloured Tanager	V	Brazil
<i>Tangara peruviana</i>	Black-backed Tanager	K*	Brazil
<i>Tangara meyerdesschauensei</i>	Green-capped Tanager	K*	Peru
<i>Dacnis aliventris</i>	White-bellied Dacnis	K*	Brazil, Colombia, Ecuador, Peru, Venezuela
<i>Dacnis hartlaubi</i>	Turquoise Dacnis	K*	Colombia
<i>Dacnis nigripes</i>	Black-legged Dacnis	K*	Brazil
<i>Dacnis berlepschi</i>	Scarlet-breasted Dacnis	K*	Colombia, Ecuador
<i>Diglossa venezuelensis</i>	Venezuelan Flowerpiercer	K*	Venezuela
<b>Family Parulidae</b>			
<i>Vermivora bachmanii</i>	Bachman's Warbler	E	Cuba, U.S.A.
<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	K*	U.S.A., Central America
<i>Dendroica kirtlandii</i>	Kirtland's Warbler	E	Bahama Is, U.S.A.
<i>Catharopeza bishopi</i>	Whistling Warbler	K*	St. Vincent
<i>Geothlypis flavovelata</i>	Altamira Yellowthroat	K*	Mexico
<i>Geothlypis speciosa</i>	Black-poll'd Yellowthroat	K*	Mexico

<i>Leucophaea semperi</i>	Semper's Warbler	E	St. Lucia
<i>Myioborus pariae</i>	Yellow-faced Redstart	K*	Venezuela
<i>Basileuterus cinereicollis</i>	Grey-throated Warbler	K*	Colombia, Venezuela
<i>Basileuterus ignotus</i>	Pirre Warbler	K*	Panama
<i>Basileuterus griseiceps</i>	Grey-headed Warbler	K*	Venezuela
<i>Basileuterus leucophrys</i>	White-striped Warbler	K*	Brazil
<i>Xenoligea montana</i>	White-winged Ground Warbler	K*	Dominican Republic, Haiti
<i>Conirostrum margaritae</i>	Pearly-breasted Conebill	K*	Brazil, Peru
<b>Family Drepanididae</b>			
<i>Oreomystis bairdi</i>	Kauai Creeper	K*	Hawaiian Is (U.S.A.)
<i>Oreomystis mana</i>	Hawaii Creeper	K*	Hawaiian Is (U.S.A.)
<i>Paroreomyza maculata</i>	Oahu Creeper	K*	Hawaiian Is (U.S.A.)
<i>Paroreomyza flammea</i>	Mulokai Creeper	K*	Hawaiian Is (U.S.A.)
<i>Paroreomyza montana</i>	Mau Creeper	K*	Hawaiian Is (U.S.A.)
<i>Loxops coccinea</i>	Akepa	K*	Hawaiian Is (U.S.A.)
<i>Hemignathus obscurus</i>	Akialoa	E	Hawaiian Is (U.S.A.)
<i>Hemignathus lucidus</i>	Nukupuu	E	Hawaiian Is (U.S.A.)
<i>Hemignathus munroi</i>	Akiapolaau	E	Hawaiian Is (U.S.A.)
<i>Pseudonestor xanthophrys</i>	Mau Parrotbill	V	Hawaiian Is (U.S.A.)
<i>Telespyza ultima</i>	Nihoa Finch	K*	Hawaiian Is (U.S.A.)
<i>Telespyza cantans</i>	Laysan Finch	K*	Hawaiian Is (U.S.A.)
<i>Psittirostra psittacea</i>	Ou	E	Hawaiian Is (U.S.A.)
<i>Psittirostra bailliei</i>	Palila	E	Hawaiian Is (U.S.A.)
<i>Melamprosops phaeosoma</i>	Poo Uli	R	Hawaiian Is (U.S.A.)
<i>Palmeria dolei</i>	Crested Honeycreeper	V	Hawaiian Is (U.S.A.)
<b>Family Vireonidae</b>			
<i>Vireo atricapillus</i>	Black-capped Vireo	K*	Mexico, U.S.A.
<i>Vireo caribaeus</i>	San Andres Vireo	K*	San Andres I. (Colombia)
<b>Family Icteridae</b>			
<i>Psarocolius cassini</i>	Chestnut-mantled Oropendola	K*	Colombia
<i>Cacicus koepckeae</i>	Selva Cacique	K*	Peru
<i>Icterus bonana</i>	Martinique Oriole	K*	Martinique (France)
<i>Icterus oberi</i>	Montserrat Oriole	K*	Montserrat (U.K.)
<i>Agelaius flavus</i>	Saffron-cowled Blackbird	K*	Argentina, Bolivia, Brazil, Paraguay, Uruguay

*Agelaius xanthomus*  
*Sturnella defilippi*  
*Hypopyrrhus pyrohypogaster*  
*Coraeus forbest*

**Family Fringillidae**

*Fringilla teydea*  
*Serinus ankoberensis*  
*Serinus flavigula*  
*Neospiza concolor*  
*Carduelis yarrellii*  
*Carduelis cucullata*  
*Carduelis siemiradzskii*  
*Acanthis johannis*

**Family Estrildidae**

*Estrilda poliopareia*  
*Estrilda nigriloris*  
*Estrilda formosa*  
*Erythrura viridifacies*  
*Erythrura coloria*  
*Erythrura kleinschmidti*  
*Erythrura gouldiae*  
*Padada fuscata*

**Family Ploceidae**

*Ploceus bannermani*  
*Ploceus batesi*  
*Ploceus nigrimentum*  
*Ploceus subpersonatus*  
*Ploceus ruweti*  
*Ploceus golandi*  
*Ploceus aureonucha*  
*Ploceus megarhynchus*  
*Ploceus flavipes*  
*Ploceus nicolli*  
*Ploceus victoriae*  
*Malimbus ibadanensis*  
*Malimbus ballmanni*

Yellow-shouldered Blackbird  
 Lesser Red-breasted Meadowlark  
 Red-bellied Grackle  
 Forbes's Blackbird

Blue Chaffinch  
 Ankober Serin  
 Yellow-throated Serin  
 Sao Tomé Grosbeak  
 Yellow-faced Siskin  
 Red Siskin  
 Saffron Siskin  
 Warsangli Linnet

Anambra Waxbill  
 Black-lore Waxbill  
 Green Munia  
 Green-faced Parrotfinch  
 Red-eared Parrotfinch  
 Pink-billed Parrotfinch  
 Gouldian Finch  
 Timor Sparrow

Bannerman's Weaver  
 Bates's Weaver  
 Black-chinned Weaver  
 Loango Slender-billed Weaver  
 Lake Lufira Weaver  
 Clarke's Weaver  
 Golden-naped Weaver  
 Finn's Baya Weaver  
 Yellow-legged Weaver  
 Tanzanian Mountain Weaver  
 Entebbe Weaver  
 Ibadan Malimbe  
 Gola Malimbe

V Puerto Rico  
 K\* Argentina, Brazil, Uruguay  
 K\* Colombia  
 K\* Brazil

R Canary Is (Spain)  
 R Ethiopia  
 I Ethiopia  
 I Sao Tomé  
 K\* Brazil, Venezuela  
 E Venezuela  
 K\* Ecuador  
 R Somalia

K Nigeria  
 K Zaire  
 K\* India  
 K\* Philippines  
 K\* Philippines  
 R Fiji  
 K\* Australia  
 K\* Indonesia

V Cameroon, Nigeria  
 R Cameroon  
 K Angola, Congo  
 K Angola, Congo, Zaire  
 K Zaire  
 E Kenya  
 R Zaire  
 K\* India  
 R Zaire  
 R Tanzania  
 K\* Uganda  
 E Nigeria  
 I Liberia, Sierra Leone

<i>Foudia rubra</i>	Mauritius Fody	E	Mauritius
<i>Foudia sechellarum</i>	Seychelles Fody	R	Seychelles
<i>Foudia flavicans</i>	Rodrigues Fody	E	Rodrigues (Mauritius)
<b>Family Sturnidae</b>			
<i>Aplonis zelandica</i>	Rusty-winged Starling	K*	Solomon Is, Vanuatu
<i>Aplonis santovestris</i>	Santo Mountain Starling	R	Vanuatu
<i>Aplonis pelzelni</i>	Pohnpei Mountain Starling	K*	Federated States of Micronesia (U.S.A.)
<i>Aplonis cinerascens</i>	Rarotonga Starling	K*	Cook Is
<i>Cinnyricinclus femoralis</i>	Abbott's Starling	K*	Kenya, Tanzania
<i>Sturnus senex</i>	Sri Lanka White-headed Myna	K*	Sri Lanka
<i>Leucopsar rothschildi</i>	Bali Starling	E	Indonesia
<b>Family Oriolidae</b>			
<i>Oriolus isabellae</i>	Isabela Oriole	K*	Philippines
<i>Oriolus mellianus</i>	Silver Oriole	K*	China, Thailand
<i>Dicrurus modestus</i>	Principe Drongo	K*	Principe (Sao Tomé)
<i>Dicrurus fuscipennis</i>	Grand Comoro Drongo	R	Comoro Is
<i>Dicrurus waldeni</i>	Mayotte Drongo	R	Mayotte (France)
<b>Family Callaeidae</b>			
<i>Callaeas cinerea</i>	South Island Kokako	E	New Zealand
<i>Creadion carunculatus</i>	Saddleback	K*	New Zealand
<b>Family Cracticidae</b>			
<i>Cracticus louisianensis</i>	Sudest Butcherbird	K*	Papua New Guinea
<b>Family Ptilonorhynchidae</b>			
<i>Sericulus bakeri</i>	Adelbert Bowerbird	K*	Papua New Guinea
<b>Family Paradisaeidae</b>			
<i>Macregoria pulchra</i>	Macgregor's Bird of Paradise	K*	Indonesia, Papua New Guinea
<i>Paradigalla carunculata</i>	Long-tailed Paradigalla	K*	Indonesia
<i>Epimachus fastuosus</i>	Black Sicklebill	K*	Indonesia, Papua New Guinea
<i>Epimachus meyeri</i>	Brown Sicklebill	K*	Indonesia, Papua New Guinea
<i>Astrapia mayeri</i>	Ribbon-tailed Astrapia	K*	Indonesia, Papua New Guinea



<i>Parotia wahnesi</i>	Wahnes's Parotia	K*	Papua New Guinea
<i>Paradisaea decora</i>	Goldie's Bird of Paradise	K*	Papua New Guinea
<i>Paradisaea rudolphi</i>	Blue Bird of Paradise	K*	Papua New Guinea
<b>Family Corvidae</b>			
<i>Cyanolyca pulchra</i>	Beautiful Jay	K*	Colombia, Ecuador
<i>Cyanolyca nana</i>	Dwarf Jay	K*	Mexico
<i>Cyanolyca mirabilis</i>	White-throated Jay	K*	Mexico
<i>Cyanocorax caeruleus</i>	Azure Jay	K*	Argentina, Brazil
<i>Perisoreus internigrans</i>	Sichuan Jay	K*	China
<i>Urocissa ornata</i>	Sri Lanka Magpie	K*	Sri Lanka
<i>Crypsirina cucullata</i>	Hooded Treepie	K*	Burma
<i>Temnurus temnurus</i>	Ratchet-tailed Treepie	K*	China, Viet Nam
<i>Zavattariornis siresemanni</i>	Ethiopian Bush Crow	R	Ethiopia
<i>Corvus unicolor</i>	Banggai Crow	K*	Indonesia
<i>Corvus florensis</i>	Flores Crow	K*	Indonesia
<i>Corvus kubaryi</i>	Marianas Crow	E	Guam, Northern Mariana Is (U.S.A.)
<i>Corvus tropicus</i>	Hawaiian Crow	E	Hawaiian Is (U.S.A.)



## **REPTILES and AMPHIBIANS**

## CLASS REPTILIA

## Order TESTUDINES

## Family Carettochelyidae

*Carettochelys insculpta*

K Australia, New Guinea

## Family Chelidae

*Acanthochelys macrocephala*

Big-headed Pantanal Swamp Turtle

K Brazil

*Acanthochelys pallidipectoris*

Chaco Sideneck Turtle

R Argentina, Paraguay

*Acanthochelys spixii*

Black Spine-necked Swamp Turtle

K Argentina, Brazil, Uruguay

*Phrynops dahlí*

Dahl's Toad-headed Turtle

I Colombia

*Phrynops hogei*

Hoge's Side-necked Turtle

I Brazil

*Phrynops rufipes*

Red-headed Sideneck Turtle

K Brazil, Colombia

*Pseudemydura umbrina*

Zulia Toad-headed Turtle

K Venezuela

Western Swamp Turtle

E Western Australia

## Family Cheloniidae

*Caretta caretta*

Loggerhead Turtle

V Subtropical &amp; Temperate Seas

*Chelonia mydas*

Green Turtle

E Tropical Seas

*Eretmochelys imbricata*

Hawksbill Turtle

E Tropical Seas

*Lepidochelys kempii*

Kemp's Ridley

E Gulf of Mexico

*Lepidochelys olivacea*

Olive Ridley

E Tropical Seas

## Family Chelydridae

*Macrolemys temminckii*

Alligator Snapping Turtle

V U.S.A.

## Family Dermatemnydidae

*Dermatemys mawii*

Central American River Turtle

V Central America

## Family Dermochelyidae

*Dermochelys coriacea*

Leatherback

E Tropical &amp; Temperate Seas

## Family Emydidae

*Annamemys annamensis*

Annam Leaf Turtle

K Viet Nam

*Batagur baska*

River Terrapin

E South-east Asia

*Callagur borneoensis*

Painted Terrapin

E South-east Asia

*Cistoclemmys galbiniifrons*

Indochinese Box Turtle

K Viet Nam

*Cistoclemmys hainanensis*

Hainan Box Turtle

K Hainan (China)

*Clemmys muhlenbergii*

Bog Turtle

R U.S.A.

<i>Cuora yunnanensis</i>	Yunnan Box Turtle	K	China
<i>Geoclemys hamiltonii</i>	Spotted Pond Turtle	I	South Asia
<i>Graptemys barbouri</i>	Barbour's Map Turtle	K	U.S.A.
<i>Graptemys caglei</i>	Cagle's Map Turtle	K	U.S.A.
<i>Graptemys flavimaculata</i>	Yellow-blotched Map Turtle	I	U.S.A.
<i>Graptemys oculifera</i>	Ringed Map Turtle	K	U.S.A.
<i>Heosemys depressa</i>	Arakan Forest Turtle	K	Burma
<i>Heosemys leytensis</i>	Leyte Pond Turtle	I	Leyte (Philippines)
<i>Geoemyda silvaica</i>	Cane Turtle	V	India
<i>Heosemys spinosa</i>	Spiny Turtle	K	Indonesia, Malaysia, Thailand
<i>Kachuga kachuga</i>	Red-crowned Roofed Turtle	I	Bangladesh, India, Nepal
<i>Kachuga sylhetensis</i>	Assam Roofed Turtle	K	India
<i>Kachuga trivittata</i>	Burmese Roofed Turtle	K	Burma
<i>Melanocheilus tricarinata</i>	Tricarinate Hill Turtle	I	Bangladesh, India, Nepal
<i>Morenia ocellata</i>	Burmese Eyed Turtle	K	Burma
<i>Orlitia borneensis</i>	Malaysian Giant Turtle	K	Indonesia, Malaysia
<i>Pseudemys atabamensis</i>	Alabama Red-bellied Turtle	R	U.S.A.
<i>Trachemys terrapen felis</i>	Cat Island Turtle	R	Bahamas
<i>Trachemys stejnegeri malonei</i>	Inagua Island Turtle	R	Bahamas
<i>Trachemys scripta callirostris</i>	South American Red-lined Turtle	V	Colombia, Venezuela
<i>Rhinoclemmys rubida</i>	Mexican Spotted Wood Turtle	K	Mexico
<i>Terrapene coahuila</i>	Aquatic Box Turtle	V	Mexico
<i>Terrapene nelsoni</i>	Spotted Box Turtle	K	Mexico
<i>Trachemys decorata</i>	Hispaniolan Slider	K	Hispaniola
<b>Family Kinosternidae</b>			
<i>Kinosternon angustipons</i>	Narrow-bridged Mud Turtle	R	Costa Rica, Nicaragua, Panama
<i>Kinosternon creaseri</i>	Creaser's Mud Turtle	V	Mexico
<i>Kinosternon dunnii</i>	Dunn's Mud Turtle	R	Colombia
<i>Kinosternon oaxacae</i>	Oaxaca Mud Turtle	I	Mexico
<i>Sternotherus depressus</i>	Flattened Musk Turtle	V	U.S.A.
<b>Family Pelomedusidae</b>			
<i>Erymnochelys madagascariensis</i>	Madagascan Side-necked Turtle	I	Madagascar
<i>Pelusios seychellensis</i>	Seychelles Mud Turtle	K	Seychelles
<i>Podocnemis erythrocephala</i>	Red-headed Amazon Turtle	K	Brazil, Venezuela
<i>Podocnemis expansa</i>	South American River Turtle	E	Amazon Basin
<i>Podocnemis lewyana</i>	Rio Magdalena River Turtle	I	Colombia
<i>Podocnemis sextuberculata</i>	Yellow-spotted Sideneck Turtle	K	Brazil, Colombia, Peru
<i>Podocnemis unifilis</i>		V	Amazon Basin

**Family Testudinidae**

- Geochelone chilensis*
- Geochelone elephantopus*
- Geochelone gigantea*
- Geochelone platynota*
- Geochelone radiata*
- Geochelone yniophora*
- Gopherus agassizii*
- Gopherus berlandieri*
- Gopherus flavomarginatus*
- Gopherus polyphemus*
- Homopus bergeri*
- Indotestudo elongata*
- Indotestudo forstenii*
- Malacochersus tornieri*
- Manouria emys*
- Manouria impressa*
- Psammobates geometricus*
- Pyxis arachnoidea*
- Pyxis planicauda*
- Testudo graeca graeca*
- Testudo hermanni*
- Testudo kleinmanni*

- Chaco Tortoise
- Galapagos Giant Tortoise
- Aldabra Giant Tortoise
- Burmese Starred Tortoise
- Radiated Tortoise
- Angonoka
- Desert Tortoise
- Texas Gopher Tortoise
- Bolson Tortoise
- Florida Gopher Tortoise
- Berger's Tortoise
- Elongated Tortoise
- Travancore Tortoise
- Pancake Tortoise
- Burmese Brown Tortoise
- Impressed Tortoise
- Geometric Tortoise
- Spider Tortoise
- Madagascar Flat-shelled Tortoise
- Spur-thighed Tortoise
- Hermann's Tortoise
- Egyptian Tortoise

- V Argentina, Paraguay
- V Galapagos Is
- R Aldabra
- K Burma
- V Madagascar
- E Madagascar
- V Mexico, U.S.A.
- I Mexico, U.S.A.
- E Mexico
- V U.S.A.
- K Namibia
- K India, South-east Asia
- R India, Indonesia\*
- K Kenya, Tanzania
- K South-east Asia
- K South-east Asia
- V South Africa
- I Madagascar
- I Madagascar
- V Europe, North Africa
- V Europe
- V Egypt, Israel, Libya

**Family Trionychidae**

- Trionyx nigricans*

- Black Soft-shell Turtle

- R Bangladesh

**Order CROCODYLIA**

**Family Alligatoridae**

- Alligator sinensis*
- Caiman crocodilus*
- Caiman latirostris*
- Melanosuchus niger*

- Chinese Alligator
- Spectacled Caiman
- Broad-nosed Caiman
- Black Caiman

- E China
- T Central & South America
- E Southern South America
- E South America

**Family Crocodylidae**

- Crocodylus acutus*
- Crocodylus cataphractus*
- Crocodylus intermedius*
- Crocodylus johnsoni*

- American Crocodile
- African Slender-snouted Crocodile
- Orinoco Crocodile
- Australian Fresh-water Crocodile

- E Caribbean, Central America, U.S.A.
- I Africa
- E Colombia, Venezuela
- V Australia

<i>Crocodylus mindorensis</i>	Philippines Crocodile	E	Philippines
<i>Crocodylus moreletii</i>	Morelet's Crocodile	E	Central America
<i>Crocodylus niloticus</i>	Nile Crocodile	V	Africa, Madagascar
<i>Crocodylus novaeguineae</i>	New Guinea Crocodile	V	New Guinea
<i>Crocodylus palustris</i>	Mugger	V	South Asia
<i>Crocodylus porosus</i>	Estuarine Crocodile	E	Asia, Australia, West Pacific
<i>Crocodylus rhombifer</i>	Cuban Crocodile	E	Cuba
<i>Crocodylus siamensis</i>	Siamese Crocodile	E	South-east Asia
<i>Osteolaemus tetraspis</i>	West African Dwarf Crocodile	I	West & Central Africa
<i>Tomistoma schlegelii</i>	False Gharial	E	South-east Asia
<b>Family Gavialidae</b>			
<i>Gavialis gangeticus</i>	Gharial	E	South Asia
<b>Order RHYNCHOCEPHALIA</b>			
<b>Family Sphenodontidae</b>			
<i>Sphenodon punctatus</i>	Tuatara	R	New Zealand
<b>Order SAURIA</b>			
<b>Family Agamidae</b>			
<i>Ceratophora tennentii</i>	Leaf-nosed Lizard	V	Sri Lanka
<i>Hydrosaurus pustulatus</i>	Sail-fin Lizard	V	Philippines
<b>Family Anguidae</b>			
<i>Gerrhonotus panamintus</i>	Panamint Alligator Lizard	K	U.S.A.
<b>Family Anniellidae</b>			
<i>Anniella pulchra nigra</i>	Black Legless Lizard	I	U.S.A.
<b>Family Chamaeleonidae</b>			
<i>Bradypodion taeniabronchum</i>	Smith's Dwarf Chamaeleon	V	South Africa
<b>Family Gekkonidae</b>			
<i>Anarbylus switaki</i>	Switak's Barefoot Gecko	R	U.S.A.
<i>Nactus serpensinsula</i>	Serpent Island Gecko	R	Round I., Serpent I.
<i>Oedura reticulata</i>	Reticulated Velvet Gecko	V	Australia
<i>Phelsuma edwardnewtonii</i>	Rodrigues Day Gecko	E	Rodrigues
<i>Phelsuma guentheri</i>	Gunther's Gecko	E	Round I.

<b>Family Helodermatidae</b>			
<i>Heloderma horridum</i>	Beaded Lizard	I	Guatemala, Mexico
<i>Heloderma suspectum</i>	Gila Monster	V	Mexico, U.S.A.
<b>Family Iguanidae</b>			
<i>Amblyrhynchus cristatus</i>	Galapagos Marine Iguana	R	Galapagos Is
<i>Anolis roosevelti</i>	Culebra Island Giant Anole	E	Culebra I. (Puerto Rico)
<i>Brachylophus fasciatus</i>	South Pacific Banded Iguana	V	Fiji, Tonga
<i>Brachylophus vitiensis</i>	Fiji Crested Iguana	V	Fiji
<i>Conolophus pallidus</i>	Barrington Land Iguana	R	Galapagos Is
<i>Conolophus subcristatus</i>	Galapagos Land Iguana	V	Galapagos Is
<i>Cyclura carinata</i>	Turks & Caicos Rock Iguana	R	Bahamas, Turks & Caicos
<i>Cyclura cornuta</i>	Rhinoceros Rock Iguana	T	Hispaniola, Mona I.
<i>Cyclura cychlura</i>	Andros Ground Iguana	R	Bahamas
<i>Cyclura nubila</i>	Cuban Ground Iguana	V	Cayman Is, Cuba
<i>Cyclura pinguis</i>	Aneгада Ground Iguana	E	Aneгада (British Virgin Is)
<i>Cyclura ricordii</i>	Hispaniolan Ground Iguana	I	Hispaniola
<i>Cyclura rileyi</i>		T	Bahamas
<i>Gambelia silius</i>	San Joaquin Leopard Lizard	E	U.S.A.
<i>Phrynosoma cornatum blainvillei</i>	San Diego Horned Lizard	K	Mexico, U.S.A.
<i>Uma inornata</i>	Coachella Fringe-toed Lizard	V	U.S.A.
<b>Family Lacertidae</b>			
<i>Gallotia simonyi</i>	Hierro Giant Lizard	E	Hierro (Canary Is)
<i>Podarcis filfolensis filfolensis</i>	Filfolia Lizard	R	Filfolia I. (Malta)
<b>Family Scincidae</b>			
<i>Ctenotus lanceolini</i>	Lancelin Island Skink	R	Australia
<i>Gongylomorphus bojerii fontenayi</i>	Macabé Forest Skink	R	Mauritius
<i>Leiopisma telfairii</i>	Round Island Skink	R	Round I.
<i>Macrosцинus coctaei</i>	Cape Verde Giant Skink	Ex?	Cape Verde Is
<i>Pseudemoia palfreymani</i>	Pedra Branca Skink	R	Pedra Branca I. (Australia)
<i>Tiliqua adelaidensis</i>	Adelaide Pigmy Bluetongue Lizard	I	Australia
<i>Tribolonotus ponceteti</i>		I	Shortland I. (Solomon Is)
<b>Family Teiidae</b>			
<i>Ameiva paltops</i>	St Croix Ground Lizard	E	U.S. Virgin Is
<i>Chemidophorus hyperythrus</i>	Orange-throated Whiptail	V	Mexico, U.S.A.



<b>Family Varanidae</b>			
<i>Varanus grayi</i>	Gray's Monitor	R	Luzon (Philippines)
<i>Varanus griseus caspius</i>	Central Asian Monitor	V	Central-west Asia
<i>Varanus komodoensis</i>	Komodo Dragon	R	Indonesia
<b>Family Xantusiidae</b>			
<i>Xantusia riversiana</i>	Island Night Lizard	R	U.S.A.
<b>Order SERPENTES</b>			
<b>Family Aniliidae</b>			
<i>Anomochilus leonardi</i>	Leonard's Pipe Snake	K	Peninsular Malaysia
<b>Family Boidae</b>			
<i>Acrantophis dumerili</i>	Madagascar Boa	K	Madagascar
<i>Acrantophis madagascariensis</i>	Round Island Boa	K	Madagascar
<i>Bolyeria multocarinata</i>	Round Island Keel-scaled Boa	E	Round I.
<i>Casarea dussumieri</i>	Southern Rubber Boa	E	Round I.
<i>Charina bottae umbratica</i>	Cuban Tree Boa	R	U.S.A.
<i>Epicrates angulifer</i>	Puerto Rican Boa	I	Cuba
<i>Epicrates inornatus</i>	Mona Boa	E	Puerto Rico
<i>Epicrates monensis monensis</i>	Bimini Boa	R	Mona I.
<i>Epicrates striatus fosteri</i>	Jamaican Boa	R	Bahamas
<i>Epicrates subflavus</i>	Indian Python	V	Jamaica
<i>Python molurus</i>		V	South & South-east Asia
<i>Sanzinia madagascariensis</i>		K	Madagascar
<b>Family Colubridae</b>			
<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	V	U.S.A.
<i>Iguanognathus werneri</i>	San Joaquin Coachwhip	I	Sumatra
<i>Masticophis flagellum ruddocki</i>	Alameda Striped Racer	R	U.S.A.
<i>Masticophis lateralis euryxanthus</i>	Atlantic Saltmarsh Snake	R	U.S.A.
<i>Nerodia fasciata taeniata</i>	Concho Water Snake	R	U.S.A.
<i>Nerodia harteri paucimaculata</i>	Lake Erie Water Snake	V	U.S.A.
<i>Nerodia sipedon insularum</i>	Giant Garter Snake	K	U.S.A.
<i>Thamnophis gigas</i>	Two-striped Garter Snake	R	U.S.A.
<i>Thamnophis hammondi</i>	San Francisco Garter Snake	R	Mexico, U.S.A.
<i>Thamnophis sirtalis tetrataenia</i>		E	U.S.A.
<i>Thermophis baileyi</i>		R	China

**Family Elapidae**

*Brachyaspis atriceps*  
*Hoplocephalus bungaroides*  
*Naja oxiana*  
*Ogmodon vitianus*

Broad-headed Snake  
 Central Asian Cobra  
 Fiji Snake (Bolo)

R Australia  
 I Australia  
 E Central Asia  
 I Fiji

**Family Hydrophiidae**

*Laticauda crockeri*

R Rennel I. (Solomon Is)

**Family Typhlopidae**

*Typhlops monensis*

Mona Blind Snake

R Mona I.

**Family Viperidae**

*Bothrops insularis*  
*Crotalus unicolor*  
*Crotalus willardi*  
*Vipera ammodytes transcaucasiana*  
*Vipera bornmuelleri*  
*Vipera bulgardaghica*  
*Vipera kaznakovi*  
*Vipera latifii*  
*Vipera lebetina schweizeri*  
*Vipera raddei*  
*Vipera wagneri*

Queimada Island Bothrops  
 Aruba Island Rattlesnake  
 Ridge-nosed Rattlesnake  
 Transcaucasian Long-nosed Viper

R Queimada I. (Brazil)

R Aruba I.

T Mexico, U.S.A.

R Turkey, U.S.S.R.

I Lebanon, Syria

I Turkey

R Turkey, U.S.S.R.

E Iran

V Cyclades Is (Greece)

I Iran, Turkey, U.S.S.R.

I Iran

**CLASS AMPHIBIA**

**Order ANURA**

**Family Bufonidae**

<i>Bufo boreas nelsoni</i>			I	U.S.A.
<i>Bufo exsul</i>	Amargosa Toad		R	U.S.A.
<i>Bufo houstonensis</i>	Black Toad		E	U.S.A.
<i>Bufo periglenes</i>	Houston Toad		E	Costa Rica
<i>Bufo retiformis</i>	Golden Toad		V	Mexico, U.S.A.
<i>Nectophrynoides occidentalis</i>	Sonoran Green Toad		V	Guinea, Ivory Coast
	Mount Nimba Viviparous Toad			

**Family Discoglossidae**

<i>Discoglossus nigriventer</i>	Israel Painted Frog		Ex?	Israel
<i>Alytes muletensis</i>	Ferreret		I	Mallorca (Spain)

**Family Hylidae**

<i>Hyla andersoni</i>	Pine Barrens Tree Frog		R	U.S.A.
<i>Pseudacris streckeri illinoensis</i>	Illinois Chorus Frog		I	U.S.A.

**Family Hyperoliidae**

<i>Tachynemis seychellensis</i>	Seychelles Tree Frog		R	Seychelles
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**Family Leiopelmatidae**

<i>Leiopelma archeyi</i>	Archey's Frog		R	New Zealand
<i>Leiopelma hamiltoni</i>	Hamilton's Frog		R	New Zealand
<i>Leiopelma hochstetteri</i>	Hochstetter's Frog		R	New Zealand

**Family Leptodactylidae**

<i>Batrachophrynus macrostomus</i>	Lake Junin Giant Frog		K	Peru
<i>Eleutherodactylus jasperi</i>	Golden Cocqui Frog		R	Puerto Rico
<i>Somuncuria somuncurensis</i>			I	Argentina

**Family Microhylidae**

<i>Melanobatrachus indicus</i>	Black Microhylid		I	India
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**Family Myobatrachidae**

<i>Philoria frosti</i>	Baw Baw Frog		I	Australia
<i>Rheobatrachus silus</i>	Conondale Gastric-brooding Frog		E	Australia
<i>Rheobatrachus vitellinus</i>	Eungella Gastric-brooding Frog		I	Australia

<b>Family Pelobatidae</b>					
<i>Pelobates fuscus insubricus</i>	Italian Spadefoot Toad		E	Italy	
<b>Family Pipidae</b>					
<i>Xenopus gilli</i>	Cape Platanna		V	South Africa	
<b>Family Ranidae</b>					
<i>Conraua goliath</i>	Goliath Frog		V	Cameroon, Eq. Guinea	
<i>Nesomantis thomasseti</i>	Thomasset's Seychelles Frog		R	Seychelles	
<i>Platymantis vitianus</i>	Fijian Ground Frog		K	Fiji	
<i>Rana latastei</i>	Italian Agile Frog		V	Italy, Switzerland, Yugoslavia	
<i>Rana fisheri</i>	Vegas Valley Leopard Frog		E	U.S.A.	
<i>Sooglossus gardineri</i>	Gardiner's Seychelles Frog		R	Seychelles	
<i>Sooglossus sechellensis</i>	Seychelles Frog		R	Seychelles	
<b>Order CAUDATA</b>					
<b>Family Ambystomatidae</b>					
<i>Ambystoma tigrinum californiense</i>	California Tiger Salamander		V	U.S.A.	
<i>Ambystoma dumerilii dumerilii</i>	Lake Patzcuaro Salamander		R	Mexico	
<i>Ambystoma lermaensis</i>	Lake Lerma Salamander		R	Mexico	
<i>Ambystoma macrodactylum croceum</i>	Santa Cruz Long-toed Salamander		E	U.S.A.	
<i>Ambystoma mexicanum</i>	Axolotl		R	Mexico	
<b>Family Cryptobranchidae</b>					
<i>Andrias davidianus</i>	Chinese Giant Salamander		I	China	
<i>Andrias japonicus</i>	Japanese Giant Salamander		R	Japan	
<b>Family Hynobiidae</b>					
<i>Batrachuperus mustersi</i>			K	Afghanistan	
<b>Family Plethodontidae</b>					
<i>Batrachoseps aridus</i>	Desert Slender Salamander		E	U.S.A.	
<i>Batrachoseps simatus</i>	Kern Canyon Slender Salamander		R	U.S.A.	
<i>Batrachoseps stebbinsi</i>	Tehachapi Slender Salamander		R	U.S.A.	
<i>Eurycea nana</i>	San Marcos Salamander		R	U.S.A.	
<i>Hydromantes brunus</i>	Limestone Salamander		R	U.S.A.	
<i>Hydromantes shastae</i>	Shasta Salamander		R	U.S.A.	
<i>Phaeognathus hubrichti</i>	Red Hills Salamander		R	U.S.A.	

<i>Plethodon larselli</i>	Larch Mountain Salamander	I	U.S.A.
<i>Plethodon neomexicanus</i>	Jemez Mountains Salamander	V	U.S.A.
<i>Plethodon nettingi</i>	Cheat Mountain Salamander	K	U.S.A.
<i>Plethodon stormi</i>	Siskiyou Mountains Salamander	K	U.S.A.
<i>Typhlomolge rathbuni</i>	Texas Blind Salamander	E	U.S.A.
<i>Typhlotriton spelaeus</i>	Grotto Salamander	K	U.S.A.
<b>Family Proteidae</b>			
<i>Proteus anguinus</i>	Olm	V	Italy, Yugoslavia
<b>Family Salamandridae</b>			
<i>Chioglossa lusitanica</i>	Gold-striped Salamander	V	Portugal, Spain
<i>Paramesotriton deloustali</i>	Vietnamese Salamander	I	Viet Nam



**FISH**

## CLASS CEPHALASPIDOMORPHI

## Order PETROMYZONTIFORMES

## Family Petromyzontidae

*Lampetra minima**Mordacia praecox*Miller Lake Lamprey  
Non-parasitic LampreyEx [U.S.A.]  
R Australia

## CLASS OSTEICHTHYES

## Order COELACANTHIFORMES

## Family Latimeriidae

*Latimeria chalumnae*

Latimeria

K Comoros, [South Africa]

## Order ACIPENSERIFORMES

## Family Acipenseridae

*Acipenser brevirostrum**Acipenser fulvescens**Acipenser oxyrinchus**Acipenser schrencki**Acipenser sturio**Huso dauricus**Scaphirhynchus albus*

Shortnose Sturgeon

Lake Sturgeon

Atlantic Sturgeon

Amur Sturgeon

Common Sturgeon

Kaluga

Pallid Sturgeon

V Canada, U.S.A.

V Canada, U.S.A.

V Canada, U.S.A.

V U.S.S.R.

E Europe

R U.S.S.R.

E U.S.A.

## Family Polyodontidae

*Polyodon spathula*

Paddlefish

I U.S.A.

## Order OSTEOGLOSSIFORMES

## Family Osteoglossidae

*Arapaima gigas**Scleropages formosus*

Pirarucu

Asian Bonytongue

V Amazon Basin  
K South-east Asia

## Family Notopteridae

*Notopterus blanci*

Featherback

R Kampuchea, Thailand

## Order CYPRINIFORMES

## Family Cyprinidae

*Acanthorutilus handlirschi**Balantiocheilus melanopterus**Barbus andrewi**Barbus burchelli*

Çiçek

Pla Hang Mai

Cape Whitefish

Burchell's Redfin

E Turkey

I South-east Asia

V South Africa

R South Africa







<i>Stypodon signifer</i>	Ex	[Mexico]
<i>Tanakia tanago</i>	E	Japan
<i>Tiaroga cobitis</i>	V	U.S.A.
<i>Tylognathus klalii</i>	E	Turkey
<b>Family Cobitidae</b>		
<i>Lepidocephalus jonklassi</i>	E	Sri Lanka
<i>Leptobotia curta</i>	E	Japan
<b>Family Catostomidae</b>		
<i>Catostomus bernardini</i>	V	Mexico, U.S.A.
<i>Catostomus fumeiventris</i>	R	U.S.A.
<i>Catostomus luxatus</i>	V	U.S.A.
<i>Catostomus microps</i>	E	U.S.A.
<i>Catostomus warnereensis</i>	E	U.S.A.
<i>Catostomus wigginsi</i>	R	Mexico
<i>Chasmistes brevirostris</i>	E	U.S.A.
<i>Chasmistes cujus</i>	E	U.S.A.
<i>Chasmistes liorus</i>	E	U.S.A.
<i>Chasmistes elongatus</i>	Ex	[U.S.A.]
<i>Cycleptus elongatus</i>	V	U.S.A.
<i>Lagochila lacera</i>	Ex	[U.S.A.]
<i>Moxostoma hamiltoni</i>	R	U.S.A.
<i>Moxostoma hubbsi</i>	V	Canada
<i>Xyrauchen texanus</i>	E	U.S.A.
<b>Order CHARACIFORMES</b>		
<b>Family Characidae</b>		
<i>Catabasis acuminatus</i>	E	Brazil
<i>Gymnocharacinus bergi</i>	V	Argentina
<b>Order SILURIFORMES</b>		
<b>Family Diplomystidae</b>		
<i>Diplomystes chilensis</i>	E	Chile
<b>Family Ictaluridae</b>		
<i>Ictalurus mexicanus</i>	R	Mexico
<i>Ictalurus pricei</i>	R	Mexico
<i>Noturus bailei</i>	E	U.S.A.
Stumptooth Minnow		
Tokyo Bitterling		
Loach Minnow		
Spotted Loach		
Ayumodoki		
Yaqui Sucker		
Owens Sucker		
Lost River Sucker		
Modoc Sucker		
Warner Sucker		
Opata Sucker		
Shortnose Sucker		
Cui-ui		
June Sucker		
Snake River Sucker		
Blue Sucker		
Harelip Sucker		
Rustyside Sucker		
Copper Redhorse		
Razorback Sucker		
Naked Characin		
Tollo de Agua Dulce		
Rio Verde Catfish		
Yaqui Catfish		
Smoky Madtom		



**Family Retropinnidae**

*Prototroctes maraena*  
*Prototroctes oxyrhynchus*

V Australia, Tasmania  
 Ex [New Zealand]

**Family Galaxiidae**

*Galaxias fontanus*  
*Galaxias johnstoni*  
*Galaxias parvus*  
*Galaxias pedderensis*  
*Galaxias postvectis*  
*Galaxias tanycephalus*  
*Neochanna burrowsius*  
*Neochanna diversus*

E Tasmania  
 E Tasmania  
 V Tasmania  
 V Tasmania  
 I New Zealand  
 V Tasmania  
 R New Zealand  
 I New Zealand

Australian Grayling  
 New Zealand Greyling

Swan Galaxias  
 Clarence Galaxias  
 Small Pedder Galaxias  
 Pedder Galaxias  
 Shortjawed Kokopu  
 Saddled Galaxias  
 Canterbury Mudfish  
 Black Mudfish

**Family Salmonidae**

*Coregonus alpenae*  
*Coregonus artedii*  
*Coregonus canadensis*  
*Coregonus hoyi*  
*Coregonus johannae*  
*Coregonus kiyi*  
*Coregonus nigripinnis*  
*Coregonus reighardi*  
*Coregonus zenithicus*  
*Salmo apache*  
*Salmo chrysogaster*  
*Salmo clarki* (subspecies)  
*Salmo gilae*  
*Salmo platycephalus*  
*Salvelinus agassizi*  
*Salvelinus confluentus*  
*Stenodus leucichthys leucichthys*

Ex [Great Lakes (North America)]  
 R Great Lakes (North America)  
 E Great Lakes (North America)  
 I Great Lakes (North America)  
 Ex Great Lakes (North America)  
 V Great Lakes (North America)  
 V Great Lakes (North America)  
 V Great Lakes (North America)  
 V Great Lakes (North America)  
 V U.S.A.  
 I Mexico  
 T\* U.S.A.  
 E U.S.A.  
 E Turkey  
 Ex [U.S.A.]  
 R Canada, U.S.A.  
 V U.S.S.R.

Longjaw Cisco  
 Cisco  
 Atlantic Whitefish  
 Bloater  
 Deepwater Cisco  
 Kiyi  
 Blackfin Cisco  
 Shortnose Cisco  
 Shortjaw Cisco  
 Apache Trout  
 Mexican Golden Trout  
 Cutthroat Trout  
 Gila Trout  
 Ala Balik  
 Silver Trout  
 Bull Trout

**Order PERCOPSIFORMES****Family Amblyopsidae**

*Amblyopsis rosae*  
*Amblyopsis spelaea*  
*Speoplatyrhinus poulsoni*

V U.S.A.  
 V U.S.A.  
 V U.S.A.

Ozark Cavefish  
 Northern Cavefish  
 Alabama Cavefish

## Order CYPRINODONTIFORMES

## Family Aplocheilidae

*Nothobranchius* sp.

Caprivi Killifish

E Namibia

## Family Rivulidae

*Cynolebias boitonei*  
*Cynolebias constanciae*  
*Cynolebias marmoratus*  
*Cynolebias minimus*  
*Cynolebias opalescens*  
*Cynolebias splendidus*  
*Rivulus robustus*

Brasilia Lyrefin

R Brazil

Ginger Pearlfish

V Brazil

Minute Pearlfish

E Brazil

Opalescent Pearlfish

I Brazil

Splendid Pearlfish

E Brazil

Mexican Rivulus

E Brazil

R Mexico

## Family Fundulidae

*Fundulus albolineatus*  
*Fundulus julisia*  
*Fundulus sciadicus*  
*Fundulus waccamensis*  
*Lucania interioris*

Whiteline Topminnow

Ex [U.S.A.]

Barrens Topminnow

V U.S.A.

Plains Topminnow

R U.S.A.

Waccamaw Killifish

V U.S.A.

Sardinilla Cuatro Cienegas

V Mexico

## Family Valenciidae

*Valencia hispanica*

Valencia Toothcarp

E Spain

## Family Poeciliidae

*Gambusia alvarezi*  
*Gambusia amistadensis*  
*Gambusia gaigei*  
*Gambusia georgei*  
*Gambusia heterochir*  
*Gambusia hurtadoi*  
*Gambusia longispinis*  
*Gambusia nobilis*  
*Micropanchax schoelleri*  
*Poeciliopsis occidentalis*  
*Xiphophorus couchianus*  
*Xiphophorus gordonii*

Guayacon de San Gregorio

R Mexico

Amistad Gambusia

Ex [U.S.A.]

Big Bend Gambusia

E U.S.A.

San Marcos Gambusia

Ex? U.S.A.

Clear Creek Gambusia

E U.S.A.

Guayacon de Hacienda Dolores

R Mexico

Guayacon de Cuatro Cienegas

R Mexico

Pecos Gambusia

E U.S.A.

Gila Topminnow

I Egypt

Monterrey Platyfish

V Mexico, U.S.A.

Cuatro Cienegas Platyfish

E Mexico

R Mexico

**Family Goodeidae**

<i>Allotoca maculata</i>					Mexico
<i>Ataeniobius toweri</i>				V	Mexico
<i>Characodon audax</i>				R	Mexico
<i>Characodon garmani</i>				Ex	[Mexico]
<i>Characodon lateralis</i>				V	Mexico
<i>Crenichthys baileyi</i>				V	U.S.A.
<i>Crenichthys nevadae</i>				V	U.S.A.
<i>Empetrichthys latos</i>				V	U.S.A.
<i>Empetrichthys merriami</i>				Ex	[U.S.A.]
<i>Girardinichthys multivariatus</i>				E	Mexico
<i>Girardinichthys viviparus</i>				E	Mexico
<i>Skiffia francescae</i>				E	Mexico
<i>Xenoporphus captivus</i>				R	Mexico

**Family Cyprinodontidae**

<i>Campellobias brucei</i>				E	Brazil
<i>Cualac tessellatus</i>				E	Mexico
<i>Cyprinodon alvarezii</i>				E	Mexico
<i>Cyprinodon atrorus</i>				R	Mexico
<i>Cyprinodon beltrani</i>				V	Mexico
<i>Cyprinodon bifasciatus</i>				R	Mexico
<i>Cyprinodon bovinus</i>				E	U.S.A.
<i>Cyprinodon diabolis</i>				E	U.S.A.
<i>Cyprinodon elegans</i>				E	U.S.A.
<i>Cyprinodon eximius</i>				V	Mexico, U.S.A.
<i>Cyprinodon fontinalis</i>				E	Mexico
<i>Cyprinodon labiosus</i>				V	Mexico
<i>Cyprinodon latifasciatus</i>				Ex	[Mexico]
<i>Cyprinodon macrolepis</i>				R	Mexico
<i>Cyprinodon macularius</i>				E	Mexico, U.S.A.
<i>Cyprinodon maya</i>				V	Mexico
<i>Cyprinodon meeki</i>				V	Mexico
<i>Cyprinodon nevadensis</i>				V	U.S.A.
<i>Cyprinodon pachycephalus</i>				V	Mexico
<i>Cyprinodon radiosus</i>				E	U.S.A.
<i>Cyprinodon simus</i>				V	Mexico
<i>Cyprinodon tularosa</i>				V	U.S.A.
<i>Cyprinodon verucundus</i>				V	Mexico
<i>Santa Catarina Sabrefin</i>				E	Brazil
<i>Media Luna Killie</i>				E	Mexico
<i>Potosi Pupfish</i>				E	Mexico
<i>Bolson Pupfish</i>				R	Mexico
<i>Blackfin Pupfish</i>				V	Mexico
<i>Cuatro Cienegas Pupfish</i>				R	Mexico
<i>Leon Springs Pupfish</i>				E	U.S.A.
<i>Devils Hole Pupfish</i>				E	U.S.A.
<i>Comanche Springs Pupfish</i>				E	U.S.A.
<i>Conchos Pupfish</i>				V	Mexico, U.S.A.
<i>Carbonera Pupfish</i>				E	Mexico
<i>Thicklip Pupfish</i>				V	Mexico
<i>Parras Pupfish</i>				Ex	[Mexico]
<i>Bigscale Pupfish</i>				R	Mexico
<i>Desert Pupfish</i>				E	Mexico, U.S.A.
<i>Maya Pupfish</i>				V	Mexico
<i>Mezquital Pupfish</i>				V	Mexico
<i>Amargosa Pupfish</i>				V	U.S.A.
<i>Bighead Pupfish</i>				V	Mexico
<i>Owens Pupfish</i>				E	U.S.A.
<i>Vertical Jaw Pupfish</i>				V	Mexico
<i>White Sands Pupfish</i>				V	U.S.A.
<i>Largefin Pupfish</i>				V	Mexico

<i>Cyprinodon</i> spp.	Perritos de Sandia	Ex?	Mexico
<i>Kosswigichthys asquamatus</i>	Scaleless Killifish	V	Turkey
<i>Megupsilon aporus</i>	Caterina Pupfish	E	Mexico
<i>Orestias cuvieri</i>		E	Bolivia
<b>Order BELONIFORMES</b>			
<b>Family Adrianichthyidae</b>			
<i>Adrianichthys kruyti</i>		E	Indonesia
<i>Xenopoeilus poptae</i>		E	Indonesia
<i>Xenopoeilus sarasinorum</i>		E	Indonesia
<b>Order ATHERINIFORMES</b>			
<b>Family Atherinidae</b>			
<i>Menidia conchorum</i>	Key Silverside	R	U.S.A.
<i>Menidia extensa</i>	Waccamaw Silverside	V	U.S.A.
<b>Family Melanotaeniidae</b>			
<i>Melanotaenia eachamensis</i>	Lake Eacham Rainbowfish	V	Australia
<i>Pseudomugil mellis</i>	Honey Blue-eye	V	Australia
<b>Family Phallostethidae</b>			
<i>Phallostethus dunckeri</i>		I	Malaysia
<b>Order SYNGNATHIFORMES</b>			
<b>Family Syngnathidae</b>			
<i>Hippocampus capensis</i>	Knysna Seahorse	V	South Africa
<i>Syngnathus watermayeri</i>	River Pipefish	V	South Africa
<b>Order SYNBRANCHIFORMES</b>			
<b>Family Synbranchidae</b>			
<i>Ophisternon candidum</i>	Blind Cave Eel	I	Australia
<b>Order SCORPAENIFORMES</b>			
<b>Family Cottidae</b>			
<i>Cottus asperimus</i>	Rough Sculpin	R	U.S.A.
<i>Cottus echinatus</i>	Utah Lake Sculpin	Ex	[U.S.A.]
<i>Cottus extensus</i>	Bear Lake Sculpin	R	U.S.A.
<i>Cottus greenei</i>	Shoshone Sculpin	V	U.S.A.
<i>Cottus princeps</i>	Klamath Lake Sculpin	R	U.S.A.
<i>Cottus pygmaeus</i>	Pygmy Sculpin	V	U.S.A.



**Order PERCIFORMES**

**Family Percichthyidae**

*Maccullochella macquariensis*

*Maccullochella ikei*

*Maccullochella* n.sp.

Trout Cod  
Eastern Freshwater Cod  
Mary River Cod

E Australia  
E Australia  
I Australia

**Family Centrarchidae**

*Ambloplites cavifrons*

*Micropterus notius*

*Micropterus treculi*

Roanoke Bass  
Suwannee Bass  
Guadalupe Bass

R U.S.A.  
R U.S.A.  
V U.S.A.

**Family Percidae**

*Ammocrypta asprella*

*Ammocrypta pellucida*

*Etheostoma acuticeps*

*Etheostoma aquali*

*Etheostoma australe*

*Etheostoma boschungii*

*Etheostoma cinereum*

*Etheostoma ditrema*

*Etheostoma fonticola*

*Etheostoma histrio*

*Etheostoma kanawhae*

*Etheostoma luteovinctum*

*Etheostoma mariae*

*Etheostoma microlepidum*

*Etheostoma moorei*

*Etheostoma nianguae*

*Etheostoma nuchale*

*Etheostoma okaloosae*

*Etheostoma pallidiorsum*

*Etheostoma potisi*

*Etheostoma rubrum*

*Etheostoma saludaee*

*Etheostoma sellare*

*Etheostoma striatulum*

*Etheostoma trisella*

*Etheostoma tuscumbia*

*Perca schrenki*

Crystal Darter  
Eastern Sand Darter  
Sharphead Darter  
Coppercheek Darter  
Conchos Darter  
Slackwater Darter  
Ashy Darter  
Coldwater Darter  
Fountain Darter  
Harlequin Darter  
Kanawha Darter  
Redband Darter  
Pinewoods Darter  
Smallscale Darter  
Yellowcheek Darter  
Niangua Darter  
Watercress Darter  
Okaloosa Darter  
Paleback Darter  
Mexican Darter  
Bayou Darter  
Saluda Darter  
Maryland Darter  
Striated Darter  
Trispot Darter  
Tuscumbia Darter  
Balkhash Perch

R U.S.A.  
V Canada, U.S.A.  
V U.S.A.  
R U.S.A.  
V Mexico  
V U.S.A.  
R U.S.A.  
V U.S.A.  
E U.S.A.  
I U.S.A.  
R U.S.A.  
R U.S.A.  
R U.S.A.  
R U.S.A.  
R U.S.A.  
R U.S.A.  
E U.S.A.  
V U.S.A.  
R U.S.A.  
V Mexico  
V U.S.A.  
R U.S.A.  
E U.S.A.  
V U.S.A.  
V U.S.A.  
V U.S.A.  
R U.S.S.R.

<i>Percina antesella</i>	Amber Darter	V	U.S.A.
<i>Percina aurolineata</i>	Goldline Darter	V	U.S.A.
<i>Percina burtoni</i>	Blotchside Logperch	R	U.S.A.
<i>Percina cymatotaenia</i>	Bluestripe Darter	R	U.S.A.
<i>Percina jenkinsi</i>	Conasauga Logperch	E	U.S.A.
<i>Percina lentacula</i>	Freckled Darter	R	U.S.A.
<i>Percina macrocephala</i>	Longhead Darter	V	U.S.A.
<i>Percina nasula</i>	Longnose Darter	V	U.S.A.
<i>Percina pantherina</i>	Leopard Darter	V	U.S.A.
<i>Percina rex</i>	Roanoke Logperch	V	U.S.A.
<i>Percina tanasi</i>	Snail Darter	R	U.S.A.
<i>Percina uranidea</i>	Stargazing Darter	R	U.S.A.
<i>Romanichthys valsanicola</i>	Asprete	E	Rumania
<b>Family Sciaenidae</b>			
<i>Totoaba macdonaldi</i>	Totoaba	E	Mexico
<b>Family Cichlidae</b>			
<i>Astatotilapia brevis</i>	Orange-fringed Largemouth	R	South Africa
<i>Cichlasoma bartoni</i>	Mojarra Caracolera	V	Mexico
<i>Cichlasoma labridens</i>	Mojarra	V	Mexico
<i>Cichlasoma minckleyi</i>	Mojarra	V	Mexico
<i>Cichlasoma pantostictum</i>	Mojarra	R	Mexico
<i>Cichlasoma steindachneri</i>	Mojarra	R	Mexico
<i>Konia dikume</i>	Dikume	V	Cameroon
<i>Konia eisentrauti</i>	Konye	V	Cameroon
<i>Mistichthys luzonensis</i>	Sinarapan	V	Philippines
<i>Myaka myaka</i>	Myaka Myaka	V	Cameroon
<i>Pungu maclareni</i>	Pungu	V	Cameroon
<i>Sarotherodon caroli</i>	Fissi	V	Cameroon
<i>Sarotherodon linnellii</i>	Unga	V	Cameroon
<i>Sarotherodon lohbergeri</i>	Leka Keppe	V	Cameroon
<i>Sarotherodon steinbachi</i>	Kululu	V	Cameroon
<i>Serranochromis meridianus</i>	Lowveld Largemouth	R	South Africa
<i>Stomatepia mariae</i>	Nsess	V	Cameroon
<i>Stomatepia mongo</i>	Mongo	V	Cameroon
<i>Stomatepia pindu</i>	Pindu	V	Cameroon
<i>Tilapia guinasana</i>	Otjikoto Tilapia	E	Namibia
haplochromine spp. (c. 250 spp.)	Lake Victoria Cichlids	E	East Africa
tilapiine spp. (2 spp.)	Lake Victoria Cichlids	E	East Africa

<b>Family Mugilidae</b>			
<i>Myxus capensis</i>		Freshwater Mullet	R South Africa
<b>Family Eleotridae</b>			
<i>Mogurnda</i> n.sp.	V	Flinders Gudgeon	Australia
<i>Hypseleotris dayi</i>	R	Golden Sleeper	South Africa
<b>Family Gobiidae</b>			
<i>Chlamydogobius</i> n.sp.	V	Elizabeth Springs Goby	Australia
<i>Croilia mossambica</i>	I	Burrowing Goby	South Africa
<i>Eucyclogobius newberryi</i>	R	Tidewater Goby	U.S.A.
<i>Lenipetes concolor</i>	V	O'opu Alamo'o	U.S.A.
<i>Redigobius dewaali</i>	R	Checked Goby	South Africa
<i>Sicydium stimpsoni</i>	R	O'opu Nopili	U.S.A.
<i>Silhouettea sibayi</i>	R	Sibayi Goby	South Africa
<i>Taenioides jacksoni</i>	V	Bearded Eelgoby	South Africa
<b>Family Anabantidae</b>			
<i>Sandelia bainsii</i>	V	Eastern Province Rocky	South Africa
<b>Family Belontiidae</b>			
<i>Belonita signata</i>	R	Combtail	Sri Lanka
<i>Malpulutta kretseri</i>	V	Ornate Paradisefish	Sri Lanka



**INVERTEBRATES**  
**other than Insects**

**Phylum CILIOPHORA**

**CLASS POLYHYMENOPHOREA**

**Order HETEROTRICHIDA**

**Family Stentoridae**

*Stentor introversus*

Tartar's Stentor

K U.S.A.

**Phylum CNIDARIA**

**CLASS ANTHOZOA**

**Order GORGONACEA**

**Family Plexauridae**

*Eumicella verrucosa*

Broad Sea Fan

K Mediterranean Sea, North-east Atlantic Ocean

**Family Coralliidae**

*Corallium*

Precious Corals (20 species)

CT Mediterranean Sea, Pacific Ocean

**Order ACTINIARIA**

**Family Edwardsiidae**

*Nematostella vectensis*

Starlet Sea Anemone

V U.K., North America

**Order ANTIPATHARIA**

**Family Anthipathidae**

Black Coral (c 150 species)

CT Caribbean, Indo-Pacific

**Phylum PLATYHELMINTHES**

**CLASS TURBELLARIA**

**Order TRICLADIDA**

**Family Kenkiidae**

*Kenkia rhynchida*

*Romankenkius pedderensis*

*Sphalloplana holsingeri*

*Sphalloplana subtilis*

Malheur Cave Planarian

Lake Pedder Planarian

Holsinger's Groundwater Planarian

Biggers' Groundwater Planarian

R U.S.A.

Ex? [Tasmania]

E U.S.A.

E U.S.A.

## CLASS ENOPLA

## Order HOPLONEMERTEA

## Family Prosorhochmidae

- Antiponemertes allisonae*  
*Argonemertes australiensis*  
*Argonemertes hillii*  
*Argonemertes stocki*  
*Geonemertes rodericana*  
*Katechonemertes nightingaleensis*  
*Leptonemertes chalicophora*  
*Pantinonemertes agricola*  
*Pantinonemertes enalios*  
*Pantinonemertes winsori*

## Land Nemertines

- V New Zealand  
 R Australia  
 R Australia  
 R Australia  
 R Rodrigues  
 R Tristan da Cunha  
 R Madeira, Azores, Canary Is  
 R Bermuda  
 K Australia  
 K Australia

## Phylum MOLLUSCA

## CLASS GASTROPODA

## Order ARCHAEOGASTROPODA

## Family Turbinidae

- Turbo marmoratus*

## Green Snail

CT Indo-Pacific

## Family Neritidae

- Neritilia hawaiiensis*

I Hawaii

## Order MESOGASTROPODA

## Family Valvatidae

- Valvata utahensis*

## Utah Roundmouth Snail

I U.S.A.

## Family Hydrobiidae

- Amnicola deserta*  
*Aphaostracon asthenes*  
*Aphaostracon monas*  
*Aphaostracon pycnas*  
*Aphaostracon xynoeiictus*  
*Cincinnatia helicogyra*  
*Cincinnatia mica*  
*Cincinnatia monroensis*

## St George Snail

I U.S.A.

## Blue Spring Aphaostracon

I U.S.A.

## Wekiwa Springs Aphaostracon

I U.S.A.

## Compact Hydrobe Snail

I U.S.A.

## Fenney's Spring Hydrobe Snail

I U.S.A.

## Helicoid Spring Snail

I U.S.A.

## Enterprise Spring Snail

I U.S.A.





<i>Tryonia cheatumi</i>			I	U.S.A.
<i>Tryonia clathrata</i>			I	U.S.A.
<i>Tryonia imitator</i>			I	U.S.A.
<i>Tryonia</i> n.sp. (6 species)			I	U.S.A.
<b>Family Assimineidae</b>				
<i>Assiminea infirma</i>			I	U.S.A.
<i>Assiminea</i> sp.			V	U.S.A.
<b>Family Pleuroceridae</b>				
<i>Apella alabamensis</i>			Ex	U.S.A.
<i>Apella babylonica</i>			Ex	U.S.A.
<i>Athearni anthonyi</i>			Ex	U.S.A.
<i>Athearni crassa</i>			I	U.S.A.
<i>Elinia albanyensis</i>			I	U.S.A.
<i>Goniobasis albanyensis</i>			I	U.S.A.
<i>Io arwigera arwigera</i>			E	U.S.A.
<i>Io fluvialis</i>			V	U.S.A.
<i>Leptoxis crassa</i>			I	U.S.A.
<i>Leptoxis praerosa</i>			Ex	U.S.A.
<i>Leptoxis subumbilicata</i>			I	U.S.A.
<i>Lithasia armigera</i>			I	U.S.A.
<i>Lithasia duttoniana</i>			I	U.S.A.
<i>Lithasia geniculata</i>			I	U.S.A.
<i>Lithasia jayana</i>			E	U.S.A.
<i>Lithasia lima</i>			E	U.S.A.
<i>Lithasia salebrosa</i>			E	U.S.A.
<i>Lithasia verrucosa</i>			I	U.S.A.
<b>Family Strombidae</b>				
<i>Strombus gigas</i>		Queen Conch	CT	Caribbean
<b>Family Cymatidae</b>				
<i>Charonia tritonis</i>		Triton's Trumpet	R	Indo-Pacific
<b>Order GYMNOSOMATA</b>				
<b>Family Corambidae</b>				
<i>Doridella batava</i>		Zuiderzee Doridella Sea Slug	K	Netherlands

**Order BASOMMATOPHORA****Family Lymnaeidae**

*Lymnaea kingii*  
*Myxas glutinosa*  
*Stagnicola pilsbryi*

Utah Band Snail  
 Glutinous Snail  
 Fish Springs Pond Snail

I U.S.A.  
 V Europe  
 I U.S.A.

**Family Laniidae**

*Fisherola nuttalli*

Giant Columbia River Limpet

I U.S.A.

**Family Physidae**

*Physa spelunca*  
*Physa utahensis*  
*Physa zionis*  
*Physa* sp.  
*Physa virgata*  
*Stenophysa microstriata*

Wyoming Cave Snail  
 Utah Bubble Snail  
 Zion Canyon Snail  
 Snake River Physa Snail  
 Fish Lake Snail

I U.S.A.  
 I U.S.A.  
 I U.S.A.  
 V U.S.A.  
 I U.S.A.  
 I U.S.A.

**Family Planorbidae**

*Ancylastrum cumingianus*  
*Helisoma jacksonense*  
*Helisoma magnificum*  
*Segmentina nitida*  
*Taphius eucosmius eucosmius*

Tasmanian Freshwater 'Limpet'  
 Jackson Lake Snail  
 Cape Fear Ramshorn Snail  
 Greenfield Ramshorn Snail

E Tasmania  
 I U.S.A.  
 I U.S.A.  
 V Europe  
 I U.S.A.

**Order STYLOMMATOPHORA****Family Achatinellidae**

*Achatinella* (41 species)

22 species Little Agate Shells  
 19 species Little Agate Shells

Ex [Hawaii]  
 E Hawaii

*Partulina confusa*

*Partulina crassa*

*Partulina fusoides*

*Partulina montagui*

*Partulina perdix*

*Partulina splendida*

*Perdicella kuhnsi*

E Hawaii  
 E Hawaii  
 Ex [Hawaii]  
 V Hawaii  
 Ex [Hawaii]  
 V Hawaii  
 V Hawaii  
 E/V Hawaii

**Family Partulidae**

*Partula aurantia*  
*Partula exigua*

Ex Moorea)  
 Ex Moorea)

<i>Partula gibba</i>	E	Guam
<i>Partula hebe</i>	E	Society Is
<i>Partula mirabilis</i>	Ex	Moorea
<i>Partula mooreana</i>	Ex	Moorea
<i>Partula radiolata</i>	K	Guam
<i>Partula salifana</i>	K	Guam
<i>Partula suturalis</i>	Ex	Moorea
<i>Partula taeniata</i>	Ex	Moorea
<i>Partula tohiveana</i>	Ex	Moorea
<i>Samoana abbreviata</i>	I	American Samoa
<i>Samoana diaphana</i>	E	Society Is
<i>Samoana solitaria</i>	E	Society Is
Short Samoan Tree Snail		
<b>Family Amastridae</b>		
<i>Carelia</i> (all species)	Ex	[Hawaii]
<i>Thaanumia</i> sp.	Ex?	[Hawaii]
<b>Family Pupillidae</b>		
<i>Leiostyla abbreviata</i>	V	Madeira
<i>Leiostyla cassida</i>	V	Madeira
<i>Leiostyla corneocostata</i>	V	Madeira
<i>Leiostyla gibba</i>	V	Madeira
<i>Leiostyla lamellosa</i>	V	Madeira
<i>Sterkia clementina</i>	I	U.S.A.
San Clemente Island Blunt-top Snail		
<b>Family Vertiginidae</b>		
<i>Vertigo alabamensis</i>	I	U.S.A.
<i>Vertigo angustior</i>	V	Europe
<i>Vertigo genesii</i>	V	Europe
<i>Vertigo geyeri</i>	V	Europe
<i>Vertigo hebardei</i>	I	U.S.A.
<i>Vertigo moulinsiana</i>	V	Europe
<b>Family Clausiliidae</b>		
<i>Balea perversa</i>	V	Europe
<b>Family Succineidae</b>		
<i>Catinella arenaria</i>	V	Europe
<i>Oxytoma haydeni kanabensis</i>	I	U.S.A.
<i>Oxytoma sarsi</i>	V	Europe
Kanab Amber Snail		

<b>Family Streptaxidae</b>			
<i>Gulella plantii</i>	Plant's Gulella Snail	V	South Africa
<b>Family Rhytididae</b>			
<i>Paryphanta busbyi</i>	Kauri Amber Snail	V	New Zealand
<i>Paryphanta compta</i>		V	New Zealand
<i>Paryphanta fletcheri</i>		V	New Zealand
<i>Paryphanta gilliesi</i>		V	New Zealand
<i>Paryphanta hochstetteri</i>		V	New Zealand
<i>Paryphanta lignaria</i>		V	New Zealand
<i>Paryphanta rossiana</i>		V	New Zealand
<i>Paryphanta traversi</i>		V	New Zealand
<b>Family Acavidae</b>			
<i>Anoglypta launcestonensis</i>	Granulated Tasmanian Snail	E	Tasmania
<b>Family Bulimulidae</b>			
<i>Bulimulus</i> (31 endemic species)		E	Galapagos Is
<i>Placostylus ambagiosus</i>		V	New Zealand
<i>Placostylus bollonsi</i>		V	New Zealand
<i>Placostylus hongii</i>	Flax Snail	V	New Zealand
<b>Family Arionidae</b>			
<i>Binneya notabilis</i>	Slug Snail	V	U.S.A.
<i>Geomalacus maculosus</i>	Kerry Slug	R	Ireland
<b>Family Endodontidae</b>			
<i>Anguispira picta</i>	Painted Snake-coiled Forest Snail	V	U.S.A.
<i>Discus defloratus</i>		V	Madeira
<i>Discus guerinianus</i>		V	Madeira
<i>Discus macclintocki</i>	Iowa Pleistocene Snail	E	U.S.A.
<i>Discus marmorensis</i>		I	U.S.A.
<i>Thaumatodon hystricelloides</i>		E	Western Samoa
<b>Family Helicodiscidae</b>			
<i>Helicodiscus diadema</i>		I	U.S.A.
<i>Helicodiscus hexodon</i>		I	U.S.A.
<i>Polygyriscus virginianus</i>		E	U.S.A.

<b>Family Helicarionidae</b>					
<i>Diastole matafaoi</i>	Mount Matafao Different Snail	I		American Samoa	
<b>Family Zonitidae</b>					
<i>Glyphyalinia pecki</i>		I		U.S.A.	
<i>Paravitrea clappi</i>		I		U.S.A.	
<b>Family Polygyridae</b>					
<i>Ashmunella pasonis</i>		I		U.S.A.	
<i>Mesodon archeri</i>	Archer's Toothed Land Snail	I		U.S.A.	
<i>Mesodon clarki nantahala</i>	Noonday Snail	V		U.S.A.	
<i>Mesodon clausus trossulus</i>		I		U.S.A.	
<i>Mesodon clenchi</i>	Clench's Middle-toothed Land Snail	I		U.S.A.	
<i>Mesodon jonesianus</i>		I		U.S.A.	
<i>Mesodon magazzinensis</i>	Magazine Mountain Middle-toothed Snail	I		U.S.A.	
<i>Polygyra hippocrepis</i>		I		U.S.A.	
<i>Polygyra peregrina</i>	Strange Many-whorled Land Snail	I		U.S.A.	
<i>Polygyriscus virginianus</i>	Virginia Fringed Mountain Snail	E		U.S.A.	
<i>Stenotrema hubrichti</i>		I		U.S.A.	
<i>Stenotrema leai cheatumi</i>		I		U.S.A.	
<i>Stenotrema pilsbryi</i>	Pilsbry's Narrow-apertured Land Snail	I		U.S.A.	
<i>Triodopsis mullani magnidentata</i>		I		U.S.A.	
<i>Triodopsis occidentalis</i>	Western Three-toothed Land Snail	I		U.S.A.	
<i>Triodopsis platysayoides</i>	Flat-spined Three-toothed Snail	E		U.S.A.	
<i>Vespericola karokorum</i>	Karok Indian Snail	V		U.S.A.	
<b>Family Ammonitellidae</b>					
<i>Ammonitella yatesi</i>	Yate's Snail	I		U.S.A.	
<b>Family Camaenidae</b>					
<i>Papustyla pulcherrima</i>	Manus Green Tree Snail	R		Papua New Guinea	
<b>Family Oreohelicidae</b>					
<i>Oreohelix avatoensis</i>		I		U.S.A.	
<i>Oreohelix idahoensis idahoensis</i>	Idaho Banded Mountain Snail	V		U.S.A.	
<i>Oreohelix jugalis intersum</i>		R		U.S.A.	
<i>Oreohelix jugalis jugalis</i>		V		U.S.A.	
<i>Oreohelix jugalis vortex</i>	Vortex Banded Mountain Snail	R		U.S.A.	
<i>Oreohelix peripherica weberiana</i>	Coalville Mountain Snail	I		U.S.A.	

<i>Oreohelix strigosa goniogyra</i>	Carinated Striate Banded Mountain Snail	R	U.S.A.
<i>Oreohelix vortex</i>		R	U.S.A.
<i>Oreohelix waltoni</i>	Walton's Banded Mountain Snail	I	U.S.A.
<b>Family Helminthoglyptidae</b>			
<i>Helminthoglypta allynsmithi</i>	Allyn Smith's Banded Snail	I	U.S.A.
<i>Helminthoglypta arrosa mattolensis</i>		I	U.S.A.
<i>Helminthoglypta arrosa miwoka</i>		I	U.S.A.
<i>Helminthoglypta arrosa pomaensis</i>		I	U.S.A.
<i>Helminthoglypta arrosa williamsi</i>		I	U.S.A.
<i>Helminthoglypta callistoderma</i>		I	U.S.A.
<i>Helminthoglypta mohaveana</i>		I	U.S.A.
<i>Helminthoglypta nickliniana avania</i>	Nicklin's Peninsula Snail	I	U.S.A.
<i>Helminthoglypta nickliniana bridgesi</i>		I	U.S.A.
<i>Helminthoglypta nickliniana contracosta</i>		I	U.S.A.
<i>Helminthoglypta nickliniana consors</i>		I	U.S.A.
<i>Helminthoglypta sequicola coelata</i>		I	U.S.A.
<i>Helminthoglypta walkeriana</i>	Banded Dune Snail	V	U.S.A.
<i>Micrarionta facta</i>	Concentrated Snail	V	U.S.A.
<i>Micrarionta feralis</i>	Fraternal Snail	I	U.S.A.
<i>Micrarionta gabbi</i>	Gabb's Snail	I	U.S.A.
<i>Micrarionta immaculata</i>		I	U.S.A.
<i>Micrarionta indtaensis cathedralis</i>		I	U.S.A.
<i>Micrarionta intercisa</i>		I	U.S.A.
<i>Micrarionta morongoana</i>	Colorado Desert Snail	I	U.S.A.
<i>Micrarionta opuntia</i>	Prickly Pear Snail	I	U.S.A.
<i>Micrarionta redimita</i>		I	U.S.A.
<i>Micrarionta rowelli bakerensis</i>		I	U.S.A.
<i>Micrarionta rowelli mccoiana</i>	California McCoy Snail	I	U.S.A.
<i>Monadenia circumcarinata</i>		I	U.S.A.
<i>Monadenia fidelis minor</i>		I	U.S.A.
<i>Monadenia fidelis pronolitis</i>	Rocky Coast Snail	I	U.S.A.
<i>Monadenia hillebrandi yosemitansis</i>	Indian Yosemite Snail	I	U.S.A.
<i>Monadenia hirsutis</i>		I	U.S.A.
<i>Monadenia monbrittoni</i>		I	U.S.A.
<i>Monadenia mormonum buttoni</i>		I	U.S.A.
<i>Monadenia mormonum hirsuta</i>		I	U.S.A.
<i>Monadenia selosci</i>		I	U.S.A.
<i>Monadenia setosa</i>	Trinity Bristle Snail	E	U.S.A.

*Monadenis troglodytes*  
*Sonorella eremita*  
*Sonorella metcalfi*

**Family Helicidae**

*Caseolus calculus*  
*Caseolus commixta*  
*Caseolus sphaerula*  
*Discula leacockiana*  
*Discula tabellata*  
*Discula testudinalis*  
*Discula turricula*  
*Geomitra moniziana*  
*Helix pomatia*  
*Helix subplicata*  
*Helix tryoni*

**Family Elonidae**

*Elona quimperiana*

**CLASS BIVALVIA**

*Succinea chittenangoensis*  
*Orthalicus reses*

**Order PTERIOIDA**

**Family Pteriidae**

*Pinctada margaritifera*  
*Pinctada maxima*

**Order UNIONOIDA**

**Family Unionidae**

*Alasmidonta arcuata*  
*Alasmidonta atropurpurea*  
*Alasmidonta heterodon*  
*Alasmidonta raveneliana*  
*Alasmidonta robusta*  
*Alasmidonta wrightiana*  
*Arkansia wheeleri*

I U.S.A.  
 I U.S.A.  
 I U.S.A.  
 V Madeira  
 V Madeira  
 V Madeira  
 V Madeira  
 V Madeira  
 V Madeira  
 V Madeira  
 V Madeira  
 R Europe  
 V Madeira  
 I U.S.A.

Cima Discula

Roman Snail

Escargot de Quimper

R France, Spain

Chittenango Ovate Amber Snail  
 Stock Island Snail

V U.S.A.  
 V U.S.A.

Black-lipped Pearl Oyster  
 Gold-lipped Pearl Oyster

CT Indo-Pacific  
 CT Indo-Pacific

Dwarf Wedge Mussel

I U.S.A.  
 I U.S.A.  
 E U.S.A.  
 E U.S.A.  
 E U.S.A.  
 I U.S.A.  
 E U.S.A.

Wheeler's Pearly Mussel

<i>Canthya collina</i>	James River Spiny Mussel	V	U.S.A.
<i>Canthya spinosa</i>		I	U.S.A.
<i>Carunculina pulla</i>	Savannah Shore Mussel	R	U.S.A.
<i>Conradilla caelata</i>	Birdwing Pearly Mussel	E	U.S.A.
<i>Cyrogenia aberti</i>	Western Fan-shell Pearly Mussel	E	U.S.A.
<i>Cyrogenia irrorata</i>	Eastern Fan-shell Pearly Mussel	I	U.S.A.
<i>Cyrtoniais tampicoensis tecomatensis</i>	Tampico Pearly Mussel	E	Mexico
<i>Dromus dromas</i>	Dromedary Pearly Mussel	E	U.S.A.
<i>Elliptio marsupiobesa</i>	Cape Fear Spike Pearly Mussel	I	U.S.A.
<i>Elliptio nigella</i>	Recovery Pearly Mussel	Ex	[U.S.A.]
<i>Elliptio spinosa</i>	Georgia Spiny Mussel	R	U.S.A.
<i>Elliptio steinstansana</i>	Tar River Spiny Mussel	E	U.S.A.
<i>Elliptio waccamawensis</i>	Waccamaw Spike	R	U.S.A.
<i>Elliptio</i> sp.	Waccamaw Lake Pearly Mussel	I	U.S.A.
<i>Epioblasma arcaeformis</i>	Arc-form Pearly Mussel	Ex?	[U.S.A.]
<i>Epioblasma biemarginata</i>		Ex	[U.S.A.]
<i>Epioblasma brevidens</i>		E	U.S.A.
<i>Epioblasma capsaeformis</i>		E	U.S.A.
<i>Epioblasma curtisi</i>		I	U.S.A.
<i>Epioblasma flexuosa</i>	Arcuate Pearly Mussel	Ex	[U.S.A.]
<i>Epioblasma florentina curtisi</i>	Curtis Pearly Mussel	Ex?	[U.S.A.]
<i>Epioblasma florentina florentina</i>	Yellow-blossom Pearly Mussel	E	U.S.A.
<i>Epioblasma haystana</i>	Acorn Pearly Mussel	E	U.S.A.
<i>Epioblasma lefevrei</i>	Lefevre's Pearly Mussel	Ex	[U.S.A.]
<i>Epioblasma lenior</i>	Stone's Pearly Mussel	Ex	[U.S.A.]
<i>Epioblasma lewisi</i>	Lewis Pearly Mussel	Ex?	[U.S.A.]
<i>Epioblasma metastrata</i>		E	U.S.A.
<i>Epioblasma othcaloogensis</i>	Southern Acorn Riffle Shell	E	U.S.A.
<i>Epioblasma penita</i>	Penitent Mussel	E	U.S.A.
<i>Epioblasma personata</i>	Fine-rayed Pearly Mussel	Ex	[U.S.A.]
<i>Epioblasma propinqua</i>	Nearby Pearly Mussel	Ex	[U.S.A.]
<i>Epioblasma sampsoni</i>	Sampson's Pearly Mussel	E	U.S.A.
<i>Epioblasma stewardsoni</i>	Steward's Pearly Mussel	Ex	[U.S.A.]
<i>Epioblasma sulcata delicata</i>	White Cat's Paw Mussel	E	U.S.A.
<i>Epioblasma sulcata sulcata</i>	Purple Cat's Paw Mussel	E	U.S.A.
<i>Epioblasma torulosa gubernaculum</i>	Green-blossom Pearly Mussel	E	U.S.A.
<i>Epioblasma torulosa rangiana</i>	Tan-blossom Pearly Mussel	E	U.S.A.
<i>Epioblasma torulosa torulosa</i>	Tubercled-blossom Pearly Mussel	E	Canada, U.S.A.
<i>Epioblasma triquetra</i>	Snuffbox	V	U.S.A.



<i>Epioblasma turgidula</i>	E	Turgid-blossom Pearly Mussel	U.S.A.
<i>Epioblasma walkeri</i>	E	Tan Riffle Shell Mussel	U.S.A.
<i>Fusconaia collina</i>	I	Virginia Spiny Mussel	U.S.A.
<i>Fusconaia cuneolus</i>	E	Fine-rayed Pigtoe Pearly Mussel	U.S.A.
<i>Fusconaia edgariana</i>	E	Shiny Pigtoe Pearly Mussel	U.S.A.
<i>Hemistena lata</i>	E	Cracking Pearly Mussel	U.S.A.
<i>Lampsilis dolabraeformis</i>	Ex?		[U.S.A.]
<i>Lampsilis fasciola</i>	Ex	Higgin's Eye Pearly Mussel	[U.S.A.]
<i>Lampsilis higginsii</i>	E		U.S.A.
<i>Lampsilis hostonia</i>	Ex		[U.S.A.]
<i>Lampsilis orbiculata</i>	E	Pink Mucket Pearly Mussel	U.S.A.
<i>Lampsilis perovalis</i>	I		U.S.A.
<i>Lampsilis rafinesqueana</i>	E	Neosho Pearly Mussel	U.S.A.
<i>Lampsilis streckeri</i>	I		U.S.A.
<i>Lampsilis virescens</i>	E	Alabama Lamp Pearly Mussel	U.S.A.
<i>Lasmigona holstonia</i>	I		U.S.A.
<i>Leptodea leptodon</i>	I	Scale Shell	U.S.A.
<i>Lexingtoni dolabelloides</i>	I	Slab-side Pearly Mussel	U.S.A.
<i>Megalonaias nicklineana</i>	E	Nicklin's Pearly Mussel	Mexico
<i>Obovaria retusa</i>	I	Golf Stick Pearly Mussel	U.S.A.
<i>Pegias fabula</i>	E	Little Winged Pearly Mussel	U.S.A.
<i>Plectomeris dombeyana</i>	Ex		[U.S.A.]
<i>Plethobasus cicatricosus</i>	E	White Warty Back Pearly Mussel	U.S.A.
<i>Plethobasus cooperianus</i>	E	Cumberland Pigtoe	U.S.A.
<i>Pleurobema clava</i>	I	Northern Club Shell	U.S.A.
<i>Pleurobema curtum</i>	E	Curtus' Mussel	U.S.A.
<i>Pleurobema marshalli</i>	E	Marshall's Mussel	U.S.A.
<i>Pleurobema oviforme</i>	I		U.S.A.
<i>Pleurobema plenum</i>	E		U.S.A.
<i>Pleurobema rubrum</i>	I	Rough Pigtoe Pearly Mussel	U.S.A.
<i>Pleurobema taitianum</i>	E		U.S.A.
<i>Potamilus capax</i>	E	Judge Tait's Mussel	U.S.A.
<i>Potamilus inflatus</i>	E	Fat Pocketbook	U.S.A.
<i>Quadrula cylindrica strigillata</i>	I		U.S.A.
<i>Quadrula fragosa</i>	Ex	Rough Rabbit's Foot Pearly Mussel	U.S.A.
<i>Quadrula intermedia</i>	E	Rough Maple Leaf Pearly Mussel	U.S.A.
<i>Quadrula sparsa</i>	E	Cumberland Monkeyface Pearly Mussel	U.S.A.
<i>Quadrula stapes</i>	E	Appalachian Monkey Face Pearly Mussel	U.S.A.
<i>Simpsonia ambigua</i>	I	Stirrup Shell	U.S.A.
<i>Simpsoniconcha ambigua</i>	I	Salamander Mussel	U.S.A.

<i>Toxolasma cylindrella</i>	Pale Lilliput Pearly Mussel	E	U.S.A.
<i>Villosa choctawensis</i>	Choctaw Pearly Mussel	I	U.S.A.
<i>Villosa fabalis</i>		I	U.S.A.
<i>Villosa ortmanni</i>	Ortmann's Pearly Mussel	R	U.S.A.
<i>Villosa perpurea</i>	Fine-rayed Purple Pearly Mussel	I	U.S.A.
<i>Villosa trabalis</i>	Cumberland Bean Pearly Mussel	E	U.S.A.
<b>Family Margaritiferidae</b>			
<i>Cumberlandia monodonta</i>	Spectacle Case Pearly Mussel	I	U.S.A.
<i>Margaritifera auricularia</i>	Spengler's Freshwater Mussel	I	Europe
<i>Margaritifera margaritifera</i>	Freshwater Pearl Mussel	V	Europe, North America
<i>Margaritifera marrianae</i>	Alabama Pearl Shell	I	U.S.A.
<b>Order VENEROIDA</b>			
<b>Family Tridacnidae</b>			
<i>Hippopus hippopus</i>	Horse's Hoof Clam	I	Indo-Pacific
<i>Hippopus porcellanus</i>	China Clam	I	Indo-Pacific
<i>Tridacna crocea</i>	Crocus Clam	K	Indo-Pacific
<i>Tridacna derasa</i>	Southern Giant Clam	V	Indo-Pacific
<i>Tridacna gigas</i>	Giant Clam	V	Indo-Pacific
<i>Tridacna maxima</i>	Small Giant Clam	K	Indo-Pacific
<i>Tridacna squamosa</i>	Scaly Clam	I	Indo-Pacific
<b>Family Sphaeriidae</b>			
<i>Pisidium ultramontanum</i>		I	U.S.A.
<b>Family Hyriidae</b>			
<i>Velesunio moretonicus</i>		I	Tasmania
<b>Family Caryodidae</b>			
<i>Anoglypta launcestonensis</i>		I	Tasmania

**CLASS POLYCHAETA**

**Order EUNICIDA**

**Family Eunicidae**

*Eunice viridis*

Palolo Worm

K Pacific

**CLASS HIRUDINOIDEA**

**Order ARHYNCHOBDELLAE**

**Family Hirudinidae**

*Hirudo medicinalis*

Medicinal Leech

I Europe

**CLASS OLIGOCHAETA**

**Order HAPLOTAXIDA**

**Family Megascolecidae**

*Megascolides americanus*

*Megascolides australis*

*Megascolides macel/freshi*

Washington Giant Earthworm

Giant Gippsland Earthworm

Oregon Giant Earthworm

E U.S.A.

V Australia

E U.S.A.

**Family Acanthodrilidae**

*Chilota* (13 species)

*Diptotrema* (16 species)

*Microscolex* (9 species)

*Udeima* (59 species)

South African Acanthodriline Earthworms

V South Africa

V South Africa

V South Africa

V South Africa

**Family Microchaetidae**

*Microchaetus* (33 species)

*Tritogenia* (5 species)

South African Giant Earthworms

V South Africa

V South Africa

**Family Lutodrilidae**

*Lutodrilus multivesiculatus*

R U.S.A.

**Family Komarekionidae**

*Komarekiona eatoni*

V U.S.A.

Phylum ARTHROPODA  
Subphylum CHELICERATA

## CLASS MEROSTOMATA

## Order XIPHOSURA

## Family Limulidae

*Carcinoscorpius rotundicauda**Limulus polyphemus**Tachypleus gigas**Tachypleus tridentatus*

Horseshoe Crabs

K Coastal waters - Japan to Indonesia  
K Atlantic coast of North America  
K Coastal waters - Japan to Indonesia  
K Coastal waters - Japan to Indonesia

## CLASS ARACHNIDA

## Order ARANEAE

## Family Theraphosidae

*Brachypelma smithi*

Red-kneed Tarantula

K Mexico

## Family Dipluridae

*Macrothele calpetana**Macrothele cretica*

V Spain

I Crete

## Family Ctenizidae

*Cyclocosimia torreyi*

I U.S.A.

## Family Telemidae

*Telema* (whole genus)

I U.S.A.

## Family Eresidae

*Eresus niger*

Ladybird Spider

I Europe

## Family Linyphiidae

*Troglophantes gracilis**Troglophantes similis**Troglophantes spinipes*

Kocevje Subterranean Spider

Kocevje Subterranean Spider

Kocevje Subterranean Spider

R Yugoslavia

R Yugoslavia

R Yugoslavia

## Family Asauridae

*Dolomedes plantarius*

Great Raft Spider

V Northern Europe

## Family Araneidae

*Meta dolloff*

I U.S.A.

**Family Gnaphosidae**

*Cesonia irvingi*

I Bahamas, U.S.A.

**Family Lycosidae**

*Adelocosa anops*

*Lycosa ericeticola*

*Pardosa diuturna*

*Sosippus placidus*

No-eyed Big-eyed Wolf Spider

Glacier Bay Wolf Spider

E U.S.A.

I U.S.A.

R U.S.A.

I U.S.A.

**Order PSEUDOSCORPIONIDA**

**Family Neobisiidae**

*Microcreagris imperialis*

I U.S.A.

**Order OPILIONES**

**Family Phalangodidae**

*Banksula melones*

Melones Bay Harvestman

V U.S.A.

**CLASS CRUSTACEA**

**Subphylum CRUSTACEA**

**Order ANOSTRACA**

**Family Artemiidae**

*Artemia monica*

Mono Lake Brine Shrimp

I U.S.A.

**Family Branchinectidae**

*Branchinecta gigas*

*Branchinecta patulosa*

Giant Fairy Shrimp

I Western North America

R Czechoslovakia

**Order THORACICA**

**Family Balanidae**

*Armatobalanus nefrens*

*Balanus aquila*

I U.S.A.

I U.S.A.

**Order ANASPIDACEA**

**Family Anaspidae**

*Allanaspides hetonomus*

*Allanaspides hickmani*

*Anaspides spinulæ*

V Tasmania

V Tasmania

V Tasmania

<i>Anaspides tasmaniae</i>	V	Tasmania
<i>Paranaspides lacustris</i>	V	Tasmania
<b>Family Koonungidae</b>		
<i>Koonunga cursor</i>	R	Tasmania, Australia
<i>Micraspides calmani</i>	R	Tasmania
<b>Family Psammaspidae</b>		
<i>Eucrenonaspides oinotheke</i>	V	Tasmania
<b>Order ISOPODA</b>		
<b>Family Cirolanidae</b>		
<i>Anirolana lira</i>	V	U.S.A.
<i>Arubolana imula</i>	I	Netherlands
<i>Mexilana saluposi</i>	K	Mexico
<i>Speocirolana affinis</i>	K	Mexico
<i>Speocirolana interstitialis</i>	K	Mexico
<i>Speocirolana thermydromis</i>	K	Mexico
<b>Family Sphaeromatidae</b>		
<i>Thermosphaeroma dugesi</i>	K	Mexico
<i>Thermosphaeroma milleri</i>	K	Mexico
<i>Thermosphaeroma smithi</i>	K	Mexico
<i>Thermosphaeroma subequalum</i>	K	Mexico
<i>Thermosphaeroma thermophilum</i>	E	U.S.A.
<b>Socorro Isopod</b>		
<b>Family Trichoniscidae</b>		
<i>Metatriconiscoides cellicus</i>	V	U.K.
<b>Family Styloniscidae</b>		
<i>Styloniscus</i> sp.	I	Tasmania
<b>Family Scyphacidae</b>		
<i>(Haloniscus searlei)</i>	I	Tasmania
<b>Family Armadillidae</b>		
<i>Echinodillo cavaticus</i>	I	Tasmania

<b>Family Phreatoicidae</b>			
<i>Mesacanthotelson setosis</i>		I	Tasmania
<i>Onchotelson brevicaudatus</i>		I	Tasmania
<i>Onchotelson spatulatus</i>		I	Tasmania
<i>Uramphisopus pearsoni</i>		I	Tasmania
<b>Family Asellidae</b>			
<i>Caecidotea barri</i>	Clifton Cave Isopod	I	U.S.A.
<i>Caecidotea macropoda</i>	Bat Cave Isopod	I	U.S.A.
<i>Caecidotea nickajackensis</i>	Nickajack Cave Isopod	I	U.S.A.
<i>Lirceus culveri</i>	Rye Cove Cave Isopod	I	U.S.A.
<i>Lirceus usdagalun</i>	Lee County Cave Isopod	I	U.S.A.
<b>Family Stenasellidae</b>			
<i>Mexistenasellus coahuila</i>		I	Mexico
<i>Mexistenasellus parzefalli</i>	Parzefall's Stenasellid	R	Mexico
<i>Mexistenasellus wilkensi</i>	Wilkens' Stenasellid	R	Mexico
<b>Order AMPHIPODA</b>			
<b>Family Gammaridae</b>			
<i>Gammarus acherondytes</i>	Illinois Cave Amphipod	I	U.S.A.
<i>Gammarus bousfieldi</i>	Bousfield's Amphipod	I	U.S.A.
<i>Gammarus desperatus</i>	Noel's Amphipod	I	U.S.A.
<i>Gammarus hyaliteioides</i>	Diminutive Amphipod	I	U.S.A.
<i>Gammarus pecos</i>	Pecos Amphipod	I	U.S.A.
<b>Family Crangonyctidae</b>			
<i>Allocrangonyx hubrichi</i>	Central Missouri Cave Amphipod	I	U.S.A.
<i>Allocrangonyx pellucidus</i>	Oklahoma Cave Amphipod	I	U.S.A.
<i>Crangonyx dearolfi</i>	Pennsylvania Cave Amphipod	I	U.S.A.
<i>Crangonyx grandimanus</i>	Florida Cave Amphipod	I	U.S.A.
<i>Crangonyx hobbsi</i>	Hobb's Cave Amphipod	I	U.S.A.
<i>Stygobromus araeus</i>	Tidewater Interstitial Amphipod	I	U.S.A.
<i>Stygobromus arizonensis</i>	Arizona Cave Amphipod	I	U.S.A.
<i>Stygobromus balconius</i>	Balcones Cave Amphipod	I	U.S.A.
<i>Stygobromus barri</i>	Barr's Cave Amphipod	I	U.S.A.
<i>Stygobromus bifurcatus</i>	Bifurcated Cave Amphipod	I	U.S.A.
<i>Stygobromus bowmani</i>	Bowman's Cave Amphipod	I	U.S.A.
<i>Stygobromus clantoni</i>	Clanton's Cave Amphipod	I	U.S.A.
<i>Stygobromus conradi</i>	Burnsville Cove Cave Amphipod	I	U.S.A.

<i>Stygobromus cooperi</i>	Cooper's Cave Amphipod	I	U.S.A.
<i>Stygobromus dejectus</i>	Cascade Cave Amphipod	I	U.S.A.
<i>Stygobromus elatus</i>	Elevated Spring Amphipod	I	U.S.A.
<i>Stygobromus emarginatus</i>	Greenbrier Cave Amphipod	I	U.S.A.
<i>Stygobromus ephemerus</i>	Ephemeral Cave Amphipod	I	U.S.A.
<i>Stygobromus flagellatus</i>	Ezell's Cave Amphipod	I	U.S.A.
<i>Stygobromus gradyi</i>	Grady's Cave Amphipod	I	U.S.A.
<i>Stygobromus hadenoecus</i>	Devil's Sinkhole Amphipod	I	U.S.A.
<i>Stygobromus harai</i>	Hara's Cave Amphipod	I	U.S.A.
<i>Stygobromus hayi</i>	Hay's Spring Amphipod	I	U.S.A.
<i>Stygobromus heteropodus</i>	Pickle Springs Amphipod	I	U.S.A.
<i>Stygobromus hubbsi</i>	Malheur Cave Amphipod	I	U.S.A.
<i>Stygobromus identatus</i>	Tidewater Stygonectid Amphipod	I	U.S.A.
<i>Stygobromus longipes</i>	Long-legged Cave Amphipod	I	U.S.A.
<i>Stygobromus lucifugus</i>	Rubious Cave Amphipod	I	U.S.A.
<i>Stygobromus mackenziei</i>	Mackenzie's Cave Amphipod	Ex	[U.S.A.]
<i>Stygobromus montanus</i>	Mountain Cave Amphipod	I	U.S.A.
<i>Stygobromus morrisoni</i>	Morrison's Cave Amphipod	I	U.S.A.
<i>Stygobromus mundus</i>	Bath County Cave Amphipod	I	U.S.A.
<i>Stygobromus nortoni</i>	Norton's Cave Amphipod	I	U.S.A.
<i>Stygobromus onondagensis</i>	Onondaga Cave Amphipod	I	U.S.A.
<i>Stygobromus ozarkensis</i>	Ozark Cave Amphipod	I	U.S.A.
<i>Stygobromus parvus</i>	Minute Cave Amphipod	I	U.S.A.
<i>Stygobromus pecki</i>	Peck's Cave Amphipod	I	U.S.A.
<i>Stygobromus pizzinii</i>	Pizzini's Amphipod	I	U.S.A.
<i>Stygobromus putealis</i>	Wisconsin Well Amphipod	I	U.S.A.
<i>Stygobromus reddelli</i>	Reddell's Cave Amphipod	I	U.S.A.
<i>Stygobromus smithii</i>	Alabama Well Amphipod	I	U.S.A.
<i>Stygobromus spinatus</i>	Spring Cave Amphipod	I	U.S.A.
<i>Stygobromus stellmacki</i>	Stellmack's Cave Amphipod	I	U.S.A.
<i>Stygobromus subtilis</i>	Subtle Cave Amphipod	I	U.S.A.
<i>Stygobromus wengerorum</i>	Wengeror's Cave Amphipod	I	U.S.A.
<b>Family Orchestiidae</b>			
<i>Spelaeorchestia koloana</i>	Kaui Cave Amphipod	I	Hawaii



**Order DECAPODA**

**Family Atyidae**

*Palaemonias alabamae*  
*Syncaris pacifica*  
*Typhlatya monae*

I U.S.A.  
E U.S.A.  
I Puerto Rico

**Family Palaemonidae**

*Palaemonetes antrorum*  
*Palaemonetes cummingsi*

I U.S.A.  
V U.S.A.

**Family Nephropidae**

*Homarus americanus*  
*Homarus gammarus*  
*Nephrops norvegicus*

CT North Atlantic  
CT North-east Atlantic  
CT North-east Atlantic

**Family Cambaridae**

*Cambarus batchi*  
*Cambarus bouchardi*  
*Cambarus catagius*  
*Cambarus chasmodactylus*  
*Cambarus extraneus*  
*Cambarus obeyensis*  
*Cambarus zophonastes*  
*Orconectes jeffersoni*  
*Orconectes shoupi*  
*Procambarus acherontis*  
*Procambarus connus*  
*Procambarus lepiclodactylus*

I U.S.A.  
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I U.S.A.  
I U.S.A.

**Family Astacidae**

*Astacus astacus*  
*Austropotamobius pallipes*  
*Austropotamobius torrentium*  
*Pacifastacus fortis*  
*Pacifastacus nigrescens*

V Europe  
R Europe  
K Europe  
V U.S.A.  
Ex? [U.S.A.]

**Family Parastacidae**

*Astacoides madagascariensis*

I Madagascar

<i>Astacopsis gouldi</i>	Giant Freshwater Crayfish	V	Tasmania
<i>Astacopsis franklinii</i>		I	Tasmania
<i>Cherax crassimanus</i>		R	West Australia
<i>Engaewa subcoerulea</i>		R	West Australia
<b>Family Palinuridae</b>			
<i>Jasus edwardsii</i>	Rock Lobster	CT	New Zealand
<i>Panulirus argus</i>		CT	Caribbean
<i>Panulirus guttatus</i>	Spotted Spiny Lobster	CT	Caribbean
<i>Panulirus penicillatus</i>		CT	Indo-Pacific
<b>Family Coenobitidae</b>			
<i>Birgus latro</i>	Coconut Crab	R	Indo-Pacific
<b>Family Hippidae</b>			
<i>Emerita emeritus</i>	Sand Crab	K	India, Thailand
<b>Family Pinnotheridae</b>			
<i>Parapinnixa affinis</i>	California Bay Pea Crab	K	U.S.A.

## INSECTS

## Subphylum UNIRAMIA

## CLASS INSECTA

## Order THYSANURA

## Family Machilidae

*Machiloides heteropus*  
*Machiloides perkinsi*

Hawaiian Long-palp Bristletail  
 Perkin's Club-palp Bristletail

I Hawaii  
 I Hawaii

## Order COLLEMBOLA

## Family Neanuridae

*Acanthanura dendyi*  
*Acanthanura n.sp. "mesibovi"*  
*Megalanura tasmaniae*  
*Womersleymeria bicornis*  
*Womersleymeria n.sp. "iresoni"*  
*Womersleymeria n.sp. "zachariae"*

I Tasmania  
 I Tasmania  
 I Tasmania  
 I Tasmania  
 I Tasmania  
 I Tasmania

## Order EPHEMEROPTERA

## Family Siphonuridae

*Acanthometropus pecatonica*  
*Ameletus falsus*  
*Isonychia diversa*  
*Tasmanophlebia lacus-coerulei*

Pecatonica River Mayfly  
 False Mayfly  
 Diverse Mayfly  
 Large Blue Lake Mayfly

Ex [U.S.A.]  
 I U.S.A.  
 I U.S.A.  
 R Australia

## Family Baetidae

*Heterocleon beneri*

Berner's Two-winged Mayfly

I U.S.A.

## Family Oligoneuridae

*Homoeoneuria cahabensis*  
*Homoeoneuria dolani*

Cahaba Sand-filtering Mayfly  
 Blackwater Sand-filtering Mayfly

I U.S.A.  
 I U.S.A.

## Family Heptageniidae

*Pseudirion meridionalis*

Meridion Blackwater Mayfly

I U.S.A.

## Family Behningiidae

*Dolania americana*

American Sand-burrowing Mayfly

I U.S.A.

<b>Family Ephemeridae</b>			
<i>Ephemera compar</i>	Colorado Burrowing Mayfly	I	U.S.A.
<i>Ephemera triplex</i>	West Virginia Burrowing Mayfly	I	U.S.A.
<i>Pantagienta robusta</i>	Robust Burrowing Mayfly	Ex	[U.S.A.]
<b>Family Ephemerellidae</b>			
<i>Ceratella frisoni</i>	Frison's Mayfly	I	U.S.A.
<i>Ceratella spiculosa</i>	Spiculate Mayfly	I	U.S.A.
<i>Ephemerella argo</i>	Argo Mayfly	I	U.S.A.
<b>Family Caenidae</b>			
<i>Brachycercus flavus</i>	Yellow Mayfly	I	U.S.A.
<b>Order ODONATA</b>			
<b>Family Synlestidae</b>			
<i>Ecchlorolestes nylepytha</i>		E	South Africa
<i>Ecchlorolestes peringueyi</i>		E	South Africa
<i>Phylolestes ethelae</i>		V	Dominican Republic
<b>Family Lestidae</b>			
<i>Austrolestes minjerriba</i>		E	Australia
<b>Family Hemiphlebiidae</b>			
<i>Hemiphlebia mirabilis</i>	Small Damselfly	E	Australia
<b>Family Megapodagrionidae</b>			
<i>Amanipodagrion gilliesi</i>		E	Tanzania
<b>Family Protoncuridae</b>			
<i>Noeoneura aaroni</i>		R	Guatemala, U.S.A.
<i>Nososticta pilbara</i>		E	Australia
<b>Family Platycnemididae</b>			
<i>Metacnemis angusta</i>		I	South Africa
<i>Platycnemis mauritana</i>		E	Mauritius
<b>Family Coenagrionidae</b>			
<i>Aciagrion rarum</i>		I	Angola
<i>Agriocnemis solitaria</i>		E	Mauritius

<i>Agriocnemis umbargae</i>	I	Cameroon
<i>Argiagrion leoninium</i>	I	Sierra Leone
<i>Ceragrion mourae</i>	I	Mozambique
<i>Coenagrion brisbanense</i>	V	Australia
<i>Coenagrion hylas freyi</i>	E	Austria, Germany, Switzerland
<i>Coenagrion mercuriale</i>	V	Europe
<i>Enallagma camerunense</i>	I	Tropical Africa
<i>Enallagma polychromaticum</i>	I	South Africa
<i>Enallagma recurvatum</i>	V	U.S.A.
<i>Ischnura gemina</i>	E	U.S.A.
<i>Megalagrion adytum</i>	I	Hawaii
<i>Megalagrion amaurodytium fallax</i>	I	Hawaii
<i>Megalagrion amaurodytium petes</i>	I	Hawaii
<i>Megalagrion amaurodytium waianaenum</i>	I	Hawaii
<i>Megalagrion jugorum</i>	Ex?	[Hawaii]
<i>Megalagrion leptodemus</i>	I	Hawaii
<i>Megalagrion molokaiense</i>	I	Hawaii
<i>Megalagrion molokai</i>	I	Hawaii
<i>Megalagrion nestotes</i>	Ex?	[Hawaii]
<i>Megalagrion nigrohamatum</i>	I	Hawaii
<i>Megalagrion nigrolineatum</i>	I	Hawaii
<i>Megalagrion oahuensis</i>	I	Hawaii
<i>Megalagrion oceanicum</i>	I	Hawaii
<i>Megalagrion pacificum</i>	E	Hawaii
<i>Megalagrion xanthomelas</i>	I	Hawaii
<i>Mortonagrion hirosei</i>	E	Japan
<i>Pseudagrion quadrioculatum</i>	K	Zaire
<i>Teinobasis alluaudi alluaudi</i>	E	Seychelles
<b>Family Pseudostigmatidae</b>		
<i>Mecistogaster asticta</i>	V	Brazil
<i>Mecistogaster pronoti</i>	V	Brazil
<b>Family Calopterygidae</b>		
<i>Calopteryx angustipennis</i>	I	U.S.A.
<i>Calopteryx syriaca</i>	E	Turkey, Syria, Jordan
<b>Family Epiophlebiidae</b>		
<i>Epiophlebia laidlawi</i>	V	India, Nepal
<b>Relict Himalayan Dragonfly</b>		



**Family Aeshnidae**

<i>Acanthaeshna victoria</i>	V	Australia
<i>Aeshna meruensis</i>	R	Tanzania
<i>Aeshna persephone</i>	R	U.S.A.
<i>Aeshna viridis</i>	I	Europe to Siberia
<i>Anax georgius</i>	I	Tropical Africa
<i>Austroaeschna hardyi</i>	I	Tasmania
<i>Brachytron pratense</i>	I	Belgium, Germany, U.K.
<i>Indophlebia asiatica</i>	V	India

L'Aeschna Verte

(Spring Hawker)

**Family Cordulegastridae**

<i>Cordulegaster myzinae</i>	E	Turkey, U.S.S.R.
<i>Cordulegaster sayi</i>	E	U.S.A.

Florida Spiketail Dragonfly

**Family Corduliidae**

<i>Antipodochlora braueri</i>	I	New Zealand
<i>Austrocordulia territoria</i>	E	Australia
<i>Libellulosoma minuta</i>	I	Madagascar
<i>Macromia margarita</i>	R	U.S.A.
<i>Macromia splendens</i>	R	France, Portugal, Spain
<i>Macromia wabashensis</i>	K	U.S.A.
<i>Neurocordulia clara</i>	I	U.S.A.
<i>Oxygastra curtisii</i>	V	North Africa, West Europe
<i>Somatochlora brevicincta</i>	R	Canada
<i>Somatochlora calverti</i>	R	U.S.A.
<i>Somatochlora hineana</i>	E	U.S.A.
<i>Somatochlora incurvata</i>	R	Eastern North America
<i>Somatochlora margarita</i>	R	U.S.A.
<i>Somatochlora ozarkensis</i>	R	U.S.A.
<i>Synthemis macrostigma orientalis</i>	I	Tasmania
<i>Synthemisopsis gomphomacromioides</i>	I	Tasmania
<i>Williamsonia lintneri</i>	V	U.S.A.

Shining Macromia Dragonfly

Wabash Belted Skimmer Dragonfly

Apalachicola Twilight Skimmer Dragonfly

Orange-spotted Emerald

Calverts' Emerald

Ohio Emerald Dragonfly

Big Thicket Emerald Dragonfly

Banded Bog Skimmer Dragonfly

**Family Libellulidae**

<i>Aethiothemis wataliki</i>	K	Congo
<i>Allorhizucha campioni</i>	K	Sierra Leone
<i>Anectothemis apicalis</i>	K	Tropical Africa
<i>Brachythemis fuscopalliatata</i>	E	Iraq, Israel, Turkey
<i>Brachythemis liberiensis</i>	I	Guinea Bissau



*Congothemis longistyla*  
*Eleuthemis beutikofera quadrigutta*  
*Leucorrhinia albifrons*  
*Leucorrhinia caudalis*  
*Libellula angelina*  
*Libellula jenseana*  
*Monardithemis flava*  
*Orithetrum rubens*  
*Palpopleura albifrons*  
*Sympetrum dilatatum*  
*Trithemis hartwigi*  
*Trithemis nigra*  
*Urothemis thomasi*

**Order BLATTARIA**

**Family Blattidae**

*Aspiduchus cavernicola*

**Order MANTODEA**

**Family Mantidae**

*Apteromantis aptera*

**Order GRYLLOBLATTARIA**

**Family Grylloblattidae**

*Grylloblatta chirurgica*

**Order ORTHOPTERA**

**Family Stenopelmatidae**

*Amimopelmatius kelsoensis*

*Amimopelmatius muwu*

*Deinacrida carinata*

*Deinacrida fallai*

*Deinacrida heteracantha*

*Deinacrida rugosa*

*Deinacrida tibiospina*

*Stenopelmatius cahuilaensis*

*Stenopelmatius navajo*

**Family Rhaphidophoridae**

*Daihinibaenetes arizonensis*

K Zaire  
 K Mozambique, Zimbabwe  
 I Europe, West Siberia  
 I Europe, West Siberia  
 E Japan  
 K U.S.A.  
 V Angola, Zambia  
 I Tropical Africa  
 I Gabon  
 Ex? [St Helena]  
 I Eq. Guinea  
 I Sao Tome  
 K Eastern Arabia

Tuna Cave Roach

I Puerto Rico

E Spain

Mount St Helens' Grylloblattid

V U.S.A.

Kelso Jerusalem Cricket  
 Port Conception Jerusalem Cricket  
 Herekopare Island Weta  
 Poor Knights Weta  
 Wetapunga  
 Stephens Island Weta  
 Coachella Valley Jerusalem Cricket  
 Navajo Jerusalem Cricket

I U.S.A.  
 I U.S.A.  
 V New Zealand  
 V New Zealand  
 V New Zealand  
 V New Zealand  
 I New Zealand  
 I U.S.A.  
 I U.S.A.

Arizona Giant Sand Treader Cricket

I U.S.A.



<b>Family Tetrigidae</b>			
<i>Tetrix sierrana</i>		I	U.S.A.
<i>Tettigidea empedonepia</i>		I	U.S.A.
<b>Order PHASMATOPTERA</b>			
<b>Family Phasmatidae</b>			
<i>Dryococelus australis</i>	Lord Howe Island Stick-insect	Ex	[Lord Howe I.]
<b>Order DERMAPTERA</b>			
<b>Family Labiduridae</b>			
<i>Labidura herculeana</i>	St Helena Earwig	E	St Helena
<b>Order PLECOPTERA</b>			
<b>Family Nemouridae</b>			
<i>Lednia tumana</i>	Meltwater Stonefly	I	U.S.A.
<i>Nemours wahkeena</i>	Wahkeena Falls Flightless Stonefly	I	U.S.A.
<b>Family Notonemouridae</b>			
<i>Kimminsoperla biloba</i>		I	Tasmania
<i>Kimminsoperla williamsi</i>		I	Tasmania
<b>Family Capniidae</b>			
<i>Capnia tacuistra</i>	Lake Tahoe Benthic Stonefly	I	U.S.A.
<b>Family Leuctridae</b>			
<i>Leuctra szczytkoi</i>	Schoolhouse Springs Stonefly	I	U.S.A.
<b>Family Taeniopterygidae</b>			
<i>Taeniopteryx starki</i>	Leon River Stonefly	I	U.S.A.
<b>Family Perlidae</b>			
<i>Beloneuria jamesae</i>	Cheaha Stonefly	I	U.S.A.
<i>Beloneuria georgiana</i>	Georgia Stonefly	I	U.S.A.
<i>Hansonoperla appalachia</i>	Hanson's Appalachian Stonefly	I	U.S.A.
<b>Family Chloroperlidae</b>			
<i>Alloperla roberti</i>	Robert's Stonefly	Ex	[U.S.A.]
<b>Family Peltoperlidae</b>			
<i>Soliperla fenderi</i>	Fender's Stonefly	I	U.S.A.

<b>Family Eustheniidae</b>				
<i>Eusthenia nothofagi</i>			E	Australia
<i>Eusthania reticulata</i>			I	Tasmania
<b>Family Gripopterygidae</b>				
<i>Leptoperla cacuminis</i>			R	Australia
<i>Riekoperla darlingtoni</i>			R	Australia
<b>Order ZORAPTERA</b>				
<b>Family Zorotypidae</b>				
<i>Zorotypus swezeyi</i>		Swezey's Zoroapteran	I	Hawaii
<b>Order ANOPLURA</b>				
<b>Family Haematopinidae</b>				
<i>Haematopinus oliveri</i>		Pygmy Hog Sucking Louse	E	India
<b>Order HEMIPTERA</b>				
<b>Family Reduviidae</b>				
<i>Empicoris pulchrus</i>		Pulchrus Thread Bug	I	Hawaii
<i>Siacella smithi</i>		Smith's Reduviid Bug	I	Hawaii
<i>Nesidiolestes ana</i>		Ana Wingless Thread Bug	I	Hawaii
<i>Nesidiolestes insularis</i>		Mount Tantalus Wingless Thread Bug	I	Hawaii
<i>Nesidiolestes roberti</i>		Robert's Wingless Thread Bug	I	Hawaii
<i>Nesidiolestes selium</i>		Selium Wingless Thread Bug	I	Hawaii
<b>Family Miridae</b>				
<i>Cyrtopeltis phyllostegiae</i>		Phyllostegian Leaf Bug	I	Hawaii
<i>Kalania hawaiiensis</i>		Lanai Leaf Bug	I	Hawaii
<i>Kalania</i> sp.		Oshu Leaf Bug	I	Hawaii
<b>Family Lygaeidae</b>				
<i>Metranga obscura</i>		Mauna Loa Seed Bug	I	Hawaii
<i>Neseis alternatus</i>		Kauai Band-legged Seed Bug	I	Hawaii
<i>Neseis haleakalae</i>		Mount Haleakala Seed Bug	I	Hawaii
<i>Nesocryptias villosa</i>		Villosan Flightless Seed Bug	I	Hawaii
<i>Nysius frigateensis</i>		French Frigate Shoal Seed Bug	I	Hawaii
<i>Nysius neckerensis</i>		Necker Goosefoot Seed Bug	I	Hawaii
<i>Nysius nihoae</i>		Nihoae Seed Bug	I	Hawaii
<i>Nysius sulfusus</i>		Necker Bunchgrass Seed Bug	I	Hawaii

<i>Oceaniaides bryani</i>	I	Hawaii
<i>Oceaniaides perkinsi</i>	I	Hawaii
<i>Oceaniaides rugosiceps</i>	I	Hawaii
<b>Family Rhopalidae</b>		
<i>Ithamar annectans</i>	I	Hawaii
<i>Ithamar hawaiiense</i>	I	Hawaii
<b>Family Mesoveliidae</b>		
<i>Cavaicovelia aaa</i>	I	U.S.A.
<b>Family Macroveliidae</b>		
<i>Oravelia pege</i>	I	U.S.A.
<b>Family Naucoridae</b>		
<i>Ambrysus amargosus</i>	E	U.S.A.
<i>Pelocoris shoshone</i>	I	U.S.A.
<b>Family Belostomatidae</b>		
<i>Belostoma saratogae</i>	I	U.S.A.
<b>Order HOMOPTERA</b>		
<b>Family Cixiidae</b>		
<i>Oliarus consimilis</i>	I	Hawaii
<i>Oliarus discrepans</i>	I	Hawaii
<i>Oliarus lanaiensis</i>	I	Hawaii
<i>Oliarus lihue</i>	I	Hawaii
<i>Oliarus myoporicola</i>	I	Hawaii
<b>Family Delphacidae</b>		
<i>Nesorestias filicicola</i>	I	Hawaii
<i>Nesosydne acuta</i>	I	Hawaii
<i>Nesosydne bridwelli</i>	I	Hawaii
<i>Nesosydne cyrtandrae</i>	I	Hawaii
<i>Nesosydne cyrtandricola</i>	I	Hawaii
<i>Nesosydne kuschei</i>	I	Hawaii
<i>Nesosydne leahi</i>	I	Hawaii
<i>Nesosydne longipes</i>	I	Hawaii
<i>Nesosydne sulcata</i>	I	Hawaii
Bryan's Seed Bug	I	Hawaii
Perkin's Seed Bug	I	Hawaii
Rough-headed Seed Bug	I	Hawaii
Annectans Bug	I	Hawaii
Hawaiian bug	I	Hawaii
Aaa Water Treader Bug	I	U.S.A.
Dry Creek Cliff Strider Bug	I	U.S.A.
Ash Meadows Bug	E	U.S.A.
Amargosa Bug	I	U.S.A.
Saratoga Springs Bug	I	U.S.A.
Kauai Particoloured Planthopper	I	Hawaii
Wild Cotton Planthopper	I	Hawaii
Lanai Planthopper	I	Hawaii
Lihue Planthopper	I	Hawaii
Barber's Point Planthopper	I	Hawaii
Mt Tantalus Shortwing Fern Planthopper	I	Hawaii
Iao Valley Planthopper	I	Hawaii
Bridewell's Planthopper	I	Hawaii
Nahiku Planthopper	I	Hawaii
Glenwood Planthopper	I	Hawaii
Kusche's Planthopper	I	Hawaii
Diamond Head Planthopper	I	Hawaii
Long-footed Planthopper	I	Hawaii
Keanae Planthopper	I	Hawaii

<b>Family Cicadidae</b>			
<i>Magiicada cassini</i>	V	U.S.A.	Cassini Periodical Cicada
<i>Magiicada septendecim</i>	V	Canada	Decim Periodical Cicada
<i>Magiicada septendecula</i>	V	U.S.A.	Decula Periodical Cicada
<b>Family Tettigarctidae</b>			
<i>Tettigarcta tormentosa</i>	I	Tasmania	
<b>Family Cicadellidae</b>			
<i>Felexamita rubranura</i>	I	U.S.A.	Red-veined Prairie Leafhopper
<b>Family Aphididae</b>			
<i>Ceriferella leucopogonis</i>	I	Tasmania	
<b>Family Pseudococcidae</b>			
<i>Claviccoccus erinaceus</i>	Ex	[Hawaii]	
<i>Phyllococcus oahuensis</i>	Ex	[Hawaii]	
<b>Order NEUROPTERA</b>			
<b>Family Ithonidae</b>			
<i>Oliarces clara</i>	I	Hawaii, U.S.A.	
<b>Family Mantispidae</b>			
<i>Manitspa styriaca</i>	K	South & Central Europe	
<b>Family Hemerobiidae</b>			
<i>Nesothauma halakatae</i>	I	Hawaii	Haleakala Spongillafly
<i>Pseudopsectra cookeorum</i>	I	Hawaii	Cooke's Spongillafly
<i>Pseudopsectra lobipennis</i>	I	Hawaii	Lobe-wing Spongillafly
<i>Pseudopsectra swezeyi</i>	I	Hawaii	Swezey's Spongillafly
<i>Pseudopsectra usingeri</i>	I	Hawaii	Usinger's Spongillafly
<b>Family Ascalaphidae</b>			
<i>Libelloides libelluloides</i>	K	Europe	
<i>Libelloides macaronius</i>	K	Europe	
<b>Family Myrmeleontidae</b>			
<i>Acanthaclisis occitanica</i>	K	Europe	
<i>Dendroleon pantherinus</i>	K	Europe	

*Distoleon tetragrammicus*  
*Eidoleon perjurus*  
*Myrmeleon formicarius*

Molokai Antlion

K Europe  
 I Hawaii  
 K Europe

**Order COLEOPTERA**

**Family Carabidae**

*Agonum belleri*  
*Aplothorax burchelli*  
*Calosoma sycophanta*  
*Carabus intricatus*  
*Carabus olympiae*  
*Elaphrus viridis*  
*Mormolyce phyllodes*  
*Sphaeroderus schauumi shenandoah*

I U.S.A.  
 E St Helena  
 V Europe, North Africa, U.S.S.R.  
 V Europe  
 E Italy  
 V U.S.A.  
 V Malaysia  
 I U.S.A.

Beller's Ground Beetle

Puppenrauber

Blue Ground Beetle

Delta Green Ground Beetle

Ghost Walker Beetle

Schaum's Blue Ridge Ground Beetle

**Family Cicindelidae**

*Cicindela arenicola*  
*Cicindela cazieri*  
*Cicindela chlorocephala smylhi*  
*Cicindela columbica*  
*Cicindela dorsalis dorsalis*  
*Cicindela latesignata obliviosa*  
*Cicindela limbata albissima*  
*Cicindela marginata*  
*Cicindela marginipennis*  
*Cicindela nevadica olmosa*  
*Cicindela nigrocoerulea subtropica*  
*Cicindela obsoleta neojuvenalis*  
*Cicindela puritana*  
*Cicindela tranquebarica viridissima*

I U.S.A.  
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Idaho Dunes Tiger Beetle

Cazier's Tiger Beetle

Smyth's Tiger Beetle

Columbia River Tiger Beetle

North-eastern Beach Tiger Beetle

Oblivious Tiger Beetle

Coral Pink Dunes Tiger Beetle

Tiger Beetle

Cobblestone Tiger Beetle

Los Olmos Tiger Beetle

Subtropical Blue-black Tiger Beetle

Neojuvénile Tiger Beetle

Puritan Tiger Beetle

Greenest Tiger Beetle

**Family Haliplidae**

*Brychius hungerfordi*  
*Haliphus nitens*

Hungerford's Crawling Water Beetle  
 Disjunct Crawling Water Beetle

I U.S.A.  
 I U.S.A.

**Family Dytiscidae**

*Agabus rumppi*  
*Desmopachria conchramis*  
*Dytiscus latissimus*

Death Valley Diving Beetle  
 Fig Seed Diving Beetle

I U.S.A.  
 I U.S.A.  
 E North & Central Europe, Siberia







<i>Osmoderma eremita</i>	Hermit Beetle	E	Europe
<i>Peltotrupes youngi</i>	Ocala Burrowing Scarab Beetle	I	U.S.A.
<i>Polylamina pubescens</i>	Woody Gulf Dune Scarab Beetle	I	U.S.A.
<i>Polyphylla anteroneva</i>	Saline Valley Snow-front Scarab	I	U.S.A.
<i>Polyphylla avittata</i>	Spotted Warner Valley Dunes Scarab	I	U.S.A.
<i>Polyphylla barbata</i>	Barbate Scarab Beetle	I	U.S.A.
<i>Polyphylla nubila</i>	Atascodera Scarab Beetle	I	U.S.A.
<i>Prodontria lewisi</i>	Cromwell Chafer	V	New Zealand
<i>Pseudocotalpa giulianii</i>	Giuliani's Dune Scarab Beetle	I	U.S.A.
<i>Serica frosti</i>	Frost's Spring Scarab Beetle	I	U.S.A.
<i>Serica tantula</i>	Tantula Scarab Beetle	I	U.S.A.
<i>Trigonopelastes floridana</i>	Scrub Palmetto Flower Scarab Beetle	R/I	U.S.A.
<b>Family Buprestidae</b>			
<i>Buprestis splendens</i>	Goldstreifiger	E	Europe
<b>Family Elmidae</b>			
<i>Atractelmis wawona</i>	Wawona Riffle Beetle	I	U.S.A.
<i>Cylloepus parkeri</i>	Parker's Riffle Beetle	I	U.S.A.
<i>Dubiraphia brunescens</i>	Brownish Riffle Beetle	I	U.S.A.
<i>Dubiraphia giulianii</i>	Giuliani's Riffle Beetle	I	U.S.A.
<i>Dubiraphia parva</i>	Little Riffle Beetle	I	U.S.A.
<i>Dubiraphia robusta</i>	Robust Riffle Beetle	I	U.S.A.
<i>Heterelmis stephani</i>	Stephan's Riffle Beetle	I	U.S.A.
<i>Huleechius marroni carolus</i>	Marron's San Carlos Riffle Beetle	I	U.S.A.
<i>Microcylloepus browni</i>	Brown's Riffle Beetle	I	U.S.A.
<i>Optioservus browni</i>	Brown's Riffle Beetle	I	U.S.A.
<i>Optioservus canus</i>	Pinnacles Riffle Beetle	I	U.S.A.
<i>Optioservus phaeus</i>	Scott Riffle Beetle	I	U.S.A.
<i>Stenelmis calida calida</i>	Devil's Hole Warm Spring Riffle Beetle	I	U.S.A.
<i>Stenelmis calida moapa</i>	Moapa Warm Springs Riffle Beetle	I	U.S.A.
<i>Stenelmis douglasensis</i>	Douglas Riffle Beetle	I	U.S.A.
<i>Stenelmis gammoni</i>	Gammon's Riffle Beetle	I	U.S.A.
<i>Zaitzeva thermac</i>	Warm Spring Riffle Beetle	I	U.S.A.
<b>Family Psephenidae</b>			
<i>Acneus beeri</i>	Beer's False Water Penny Beetle	I	U.S.A.
<i>Acneus burnelli</i>	Burnell's False Water Penny Beetle	I	U.S.A.
<i>Alabamaubria starki</i>	Stark's False Water Penny Beetle	I	U.S.A.

<i>Dicranopselaphus variegatus</i>					
<i>Psephenus arizonensis</i>		Variegated False Water Penny Beetle	I	U.S.A.	
<i>Psephenus montanus</i>		Arizona Water Penny Beetle	I	U.S.A.	
		White Mountains Water Penny Beetle	I	U.S.A.	
<b>Family Elateridae</b>					
<i>Amychus candezei</i>			V	Chatham Is, New Zealand	
<i>Amychus granulatus</i>			V	New Zealand	
<i>Eanus hatchi</i>		Hatch's Click Beetle	I	Canada, U.S.A.	
<i>Eopenthes</i> (17 species)		Hawaiian Click Beetles	E	Hawaii	
<i>Itodacnus</i> (whole genus)		Necker Click Beetles	I	Hawaii	
<b>Family Eucnemidae</b>					
<i>Pateoxenus dohni</i>		Dohrn's Elegant Eucnemid Beetle	I	U.S.A.	
<b>Family Lampyridae</b>					
<i>Micronaspis floridana</i>		Florida Intertidal Firefly	I	U.S.A.	
<i>Photuris brunnipennis floridana</i>		Everglades Browing Firefly	I	U.S.A.	
<b>Family Anobiidae</b>					
<i>Holcobius pikoensis</i>		Piko Anobiid Beetle	I	Hawaii	
<b>Family Cucujidae</b>					
<i>Cucujus cinnaberinus</i>		Scharlachkäfer	E	Northern & Central Europe	
<b>Family Tenebrionidae</b>					
<i>Coelus globosus</i>		Globose Dune Beetle	I	Mexico, U.S.A.	
<i>Coelus gracilis</i>		San Joaquin Dune Beetle	I	U.S.A.	
<i>Polposipus herculeanus</i>		Frigate Island Giant Tenebrionid Beetle	R	Seychelles	
<b>Family Meloidae</b>					
<i>Lytta hoppingi</i>		Hopping's Blister Beetle	I	U.S.A.	
<i>Lytta inseperata</i>		Mojave Desert Blister Beetle	I	U.S.A.	
<i>Lytta mirifica</i>		Anthony Blister Beetle	I	Mexico, U.S.A.	
<i>Lytta moesta</i>		Moestan Blister Beetle	I	U.S.A.	
<i>Lytta molesta</i>		Molestan Blister Beetle	I	U.S.A.	
<i>Lytta morrisoni</i>		Morrison's Blister Beetle	I	U.S.A.	

<b>Family Anthicidae</b>				
<i>Anthicus antiochensis</i>		Antioch Dunes Beetle	I	U.S.A.
<i>Anthicus sacramento</i>		Sacramento Beetle	I	U.S.A.
<b>Family Cerambycidae</b>				
<i>Aeschrithmysus dubautianus</i>			E	Hawaii
<i>Aeschrithmysus swezeyi</i>			E	Hawaii
<i>Aeschrithmysus terryi</i>			E	Hawaii
<i>Cerambyx cerdo</i>		Cerambyx Longicorn	E	Central & Northern Europe
<i>Crossidius mojavenensis mojavenensis</i>		Mojave Rabbitbrush Longhorn Beetle	E	U.S.A.
<i>Desmocerus californicus dimorphus</i>		Valley Elderberry Longhorn Beetle	V	U.S.A.
<i>Dryobius sexnotatus</i>		Six-banded Longhorn Beetle	I	U.S.A.
<i>Macrodontia cervicornis</i>			K	Brazil, Peru
<i>Morimus funereus</i>			E	Central Europe, U.S.S.R.
<i>Necydalis rudei</i>		Rude's Longhorn Beetle	I	Hawaii
<i>Nesithmysus bridwelli</i>			E	Hawaii
<i>Nesithmysus frobesi</i>			E	Hawaii
<i>Nesithmysus haasi</i>			E	Hawaii
<i>Nesithmysus swezeyi</i>			E	Hawaii
<i>Plagithmysus</i> (49 species)			E	Hawaii
<i>Rosalia alpina</i>		Rosalia Longicorn	E	Central & Northern Europe
<i>Xylotoles costatus</i>			Ex	[Chatham Is]
<b>Family Chrysomelidae</b>				
<i>Donacia idola</i>		Bog Idol Leaf Beetle	I	U.S.A.
<b>Family Aglycyderidae</b>				
<i>Proterhinus</i> (72 species)		Hawaiian Proterhinus Beetles	E	Hawaii
<b>Family Curculionidae</b>				
<i>Anagotus fairburni</i>		Flax Weevil	V	New Zealand
<i>Anagotus turbotti</i>		Turbott's Weevil	V	New Zealand
<i>Deinocossonus nesiotus</i>		Oahu Nesiotus Weevil	E	Hawaii
<i>Dryophthorus distinguendus</i>			Ex	[Hawaii]
<i>Dryotribus mimeticus</i>			Ex	[Hawaii]
<i>Dysticheus rotundicollis</i>		Antioch Dune Weevil	I	U.S.A.

<i>Gymnopholus lichenifer</i>	Lichen Weevil	V	Papua New Guinea
<i>Hadramphus spinipennis</i>		V	Chatham Is
<i>Hadramphus stilbocarpae</i>		V	New Zealand
<i>Hadramphus tuberculatus</i>		V	New Zealand
<i>Heteramphus filicum</i>		E	Hawaii
<i>Heterexis seticostatus</i>		V	New Zealand
<i>Lyperobius huttoni</i>		V	New Zealand
<i>Macrancylus linearis</i>	Speargrass Weevil	Ex	[Hawaii]
<i>Megacolabus sculpturatus</i>		V	New Zealand
<i>Microcryptorhynchus orientissimus</i>		R	Henderson I.
<i>Miloderes nelsoni</i>	Nelson's Weevil	I	U.S.A.
<i>Miloderes rutili</i>	Rulien's Weevil	I	U.S.A.
<i>Nesotocus giffordi</i>	Gifford's Weevil	I	Hawaii
<i>Nesotocus kauaiensis</i>	Kauai Weevil	I	Hawaii
<i>Nesotocus munroi</i>	Munro's Weevil	I	Hawaii
<i>Nothaldonis peaci</i>		E	New Zealand
<i>Oclandius laeviusculus</i>		V	New Zealand
<i>Oedemasylus laysanensis</i>		Ex	[Hawaii]
<i>Onchobarus langei</i>	Lange's El Segundo Dune Weevil	I	U.S.A.
<i>Oodemas</i> (whole genus)	Windward Chain Weevils	I	Hawaii
<i>Pentarthrum blackburni</i>	Blackburn's Weevil	Ex?	[Hawaii]
<i>Pentarthrum obscura</i>	Obscure Weevil	I	Hawaii
<i>Pentarthrum pritchardias</i>		E	Hawaii
<i>Rhyncogonus hendersoni</i>		R	Henderson I.
<i>Rhyncogonus</i> (22 species)	Hawaiian Snout Beetles	E	Hawaii
<i>Stenotrupis pritchardiae</i>	Nihoa Weevil	I	Hawaii
<i>Trigonoscuta brunnotesselata</i>	Brown-tassel Weevil	I	U.S.A.
<i>Trigonoscuta dorothea dorothea</i>	Dorothy's El Segundo Dune Weevil	I	U.S.A.
<i>Trigonoscuta doyeri</i>	Doyen's Dune Weevil	E/V	U.S.A.
<i>Trigonoscuta rossi</i>	Fort Ross Weevil	Ex?	[U.S.A.]
<i>Trigonoscuta yorbalinda</i>	Yorba Linda Weevil	Ex?	[U.S.A.]
<i>Unas piceus</i>		V	New Zealand
<b>Order MECOPTERA</b>			
<b>Family Apteropanorpidae</b>			
<i>Apteropanorpa tasmanica</i>		I	Tasmania



<b>Family Asteiidae</b>					
<i>Bryania bipunctata</i>	Nihoa Two-spotted Asterid Fly	I		Hawaii	
<b>Family Drosophilidae</b>					
<i>Drosophila lanaiensis</i>		Ex	[Hawaii]		
<b>Family Ephydriidae</b>					
<i>Paracoenia calida</i>	Wilber Springs Shore Fly	I		U.S.A.	
<b>Order TRICHOPTERA</b>					
<b>Family Rhyacophilidae</b>					
<i>Rhyacophila alexandra</i>	Alexander's Caddisfly	I		U.S.A.	
<i>Rhyacophila amabilis</i>	Castle Lake Caddisfly	Ex	[U.S.A.]		
<i>Rhyacophila colonus</i>	O'Brien Caddisfly	I		U.S.A.	
<i>Rhyacophila fenderi</i>	Fender's Caddisfly	I		U.S.A.	
<i>Rhyacophila haddocki</i>	Haddock's Caddisfly	I		U.S.A.	
<i>Rhyacophila lineata</i>	Castle Crags Caddisfly	I		U.S.A.	
<i>Rhyacophila mosana</i>	Bilobed Caddisfly	I		U.S.A.	
<i>Rhyacophila spinata</i>	Spiny Caddisfly	I		U.S.A.	
<i>Rhyacophila unipunctata</i>	One-spot Caddisfly	I		U.S.A.	
<b>Family Glossosomatidae</b>					
<i>Agapetus artesus</i>	Artesian Caddisfly	I		U.S.A.	
<i>Agapetus denningi</i>	Denning's Caddisfly	I		U.S.A.	
<i>Agapetus medicus</i>	Arkansas Caddisfly	I		U.S.A.	
<i>Protoptila arca</i>	San Marcos Caddisfly	I		U.S.A.	
<b>Family Hydrotilidae</b>					
<i>Hydroptila decia</i>	Knoxville Micro Caddisfly	I		U.S.A.	
<i>Neotrichia kitae</i>	Kite's Micro Caddisfly	I		U.S.A.	
<i>Ochrotrichia alsea</i>	Alsea Micro Caddisfly	I		U.S.A.	
<i>Ochrotrichia contorta</i>	Contorted Micro Caddisfly	I		U.S.A.	
<i>Ochrotrichia phenosa</i>	Deschutes Micro Caddisfly	I		U.S.A.	
<i>Ochrotrichia provosti</i>	Provost's Micro Caddisfly	I		U.S.A.	
<i>Ochrotrichia vertreesi</i>	Vertree's Micro Caddisfly	I		U.S.A.	
<i>Oxyethira florida</i>	Florida Micro Caddisfly	I		U.S.A.	

<b>Family Philopotamidae</b>			
<i>Apatania tavala</i>	Cascades Caddisfly	I	U.S.A.
<i>Cryptochia excella</i>	Kings Canyon Caddisfly	I	U.S.A.
<i>Cryptochia neosa</i>	Blue Mountains Caddisfly	I	U.S.A.
<i>Dolophilodes oregona</i>	Oregon Caddisfly	I	U.S.A.
<i>Ecclisomyia bilera</i>	King's Creek Caddisfly	I	U.S.A.
<i>Farula davisi</i>	Green Springs Mountain Caddisfly	I	U.S.A.
<i>Farula jewetti</i>	Mount Hood Caddisfly	I	U.S.A.
<i>Farula reaperi</i>	Tombstone Prairie Caddisfly	I	U.S.A.
<i>Glyphopsyche missouri</i>	Missouri Caddisfly	I	U.S.A.
<i>Limnephilus alconura</i>	Klamath Caddisfly	I	U.S.A.
<i>Limnephilus atercus</i>	Fort Dick Caddisfly	I	U.S.A.
<i>Neothramma andersoni</i>	Colombian Gorge Caddisfly	I	U.S.A.
<i>Oligophlebodes mostbento</i>	Tombstone Prairie Oligophlebodes	I	U.S.A.
<i>Philocasca oron</i>	Clatsop Caddisfly	I	U.S.A.
<i>Triaenodes tridonata</i>	Three-tooth Caddisfly	Ex	[U.S.A.]
<b>Family Stenopsychidae</b>			
<i>Stenopsychodes lineata</i>		I	Tasmania
<b>Family Polycentropodidae</b>			
<i>Tasmanoplegas pilota</i>		I	Tasmania
<b>Family Limnephilidae</b>			
<i>Archaeophylax vernalis</i>		I	Tasmania
<b>Family Lepidostomatidae</b>			
<i>Lepidostoma fischeri</i>	Fischer's Caddisfly	I	U.S.A.
<i>Lepidostoma goedeni</i>	Goeden's Caddisfly	I	U.S.A.
<b>Family Kokiriidae</b>			
<i>Taskiria mccubbini</i>		I	Tasmania
<i>Taskropsyche lacustris</i>		I	Tasmania
<b>Family Plectrotarsidae</b>			
<i>Nanoplectrus truchanasi</i>		I	Tasmania
<b>Family Sericostomatidae</b>			
<i>Agarodes ziczac</i>	Zigzag Blackwater Caddisfly	I	U.S.A.



<b>Family Odontoceridae</b> <i>Psilotreta hansonii</i>	I	U.S.A.
<b>Family Philorheithridae</b> <i>Ramiheithrus kocinus</i>	I	Tasmania
<b>Family Leptoceridae</b> <i>Ceraclea floridana</i>	I	U.S.A.
<i>Ceraclea vertreesi</i>	I	U.S.A.
<i>Oecetis parva</i>	I	U.S.A.
<i>Trienodes phalacris</i>	Ex	[U.S.A.]
<i>Westriplectes pedderensis</i>	I	Tasmania
<b>Order LEPIDOPTERA</b>		
<b>Family Hepialidae</b> <i>Leto venus</i>	V	South Africa
<i>Zelotypia stacyi</i>	V	Australia
<b>Family Nepticulidae</b> <i>Ectodemia castaneae</i>	Ex?	[U.S.A.]
<i>Ectodemia phleophaga</i>	Ex?	[U.S.A.]
<b>Family Tischeriidae</b> <i>Tischeria perplexa</i>	Ex?	[U.S.A.]
<b>Family Gracillariidae</b> <i>Petrochroa neckerensis</i>	I	Hawaii
<i>Phildoria wilkesiella</i>	E	Hawaii
<b>Family Coleophoridae</b> <i>Coleophora leucochrysellae</i>	Ex?	[U.S.A.]
<b>Family Gelechiidae</b> <i>Kiwaia jeanae</i>	V	New Zealand
<b>Family Carposinidae</b> <i>Heterocrossa viridis</i>	I	Hawaii
<b>Family Argyresthiidae</b> <i>Argyresthia castaneola</i>	Ex?	[U.S.A.]

<b>Family Sesiidae</b>					
<i>Synanthedon castaneae</i>	Chestnut Clearwing Moth	I		U.S.A.	
<b>Family Tortricidae</b>					
<i>Grapholitha edwardsiana</i>	San Francisco Tree Lupine	R		U.S.A.	
<i>Spheterista oheoheana</i>	Ohe Ohe Leaf-roller Moth	I		Hawaii	
<i>Spheterista pierotropiana</i>	Green-banded Ohe Ohe Leaf-roller Moth	I		Hawaii	
<i>Spheterista reynoldsiana</i>	Wallupe Leaf-roller Moth	I		Hawaii	
<b>Family Cochyliidae</b>					
<i>Carolella busckana</i>	Busk's Gall Moth	I		U.S.A.	
<b>Family Hesperiiidae</b>					
<i>Antipodia chaostola leucophaea</i>	Chequered Skipper	I		Tasmania	
<i>Carterocephalus palaemon</i>	Eight Spotted Skipper	V		Central & North Europe	
<i>Dalla octomaculata</i>	Skipper	R		Costa Rica, Panama	
<i>Epargyreus antaeus</i>	Dakota Skipper	R		Jamaica	
<i>Epargyreus spana</i>	Pawnee Montane Skipper	R		Dominican Republic	
<i>Euscheman rafflesia</i>	Barber's Ranger	K		Australia	
<i>Hesperia dacotae</i>	Bamboo Sylph	E		U.S.A., Canada	
<i>Hesperia pawnee montana</i>	Wandering Skipper	E		U.S.A.	
<i>Hesperilla mastersi marakupa</i>	Salt Marsh Skipper	I		Tasmania	
<i>Hesperilla barerae bunta</i>	Rare Skipper	V		South Africa	
<i>Kedestes barerae bunta</i>	Wandering Skipper	V		South Africa	
<i>Kedestes chaca</i>	Salt Marsh Skipper	V		South Africa	
<i>Metisella syriinx</i>	Rare Skipper	I		Tasmania	
<i>Oreisplanus munionga larana</i>	Wandering Skipper	V		U.S.A., Mexico	
<i>Panoquina errans</i>	Salt Marsh Skipper	V		U.S.A., Mexico	
<i>Panoquina panoquinoides errans</i>	Rare Skipper	I		U.S.A.	
<i>Problema buienta</i>	Wandering Skipper	I		U.S.A.	
<i>Pseudocopaedeos eunus eunus</i>	Spinose Skipper	I		Romania, Southern U.S.S.R.	
<i>Syrichius cribrellum</i>	Tessellated Skipper	K		Balkans, Southern U.S.S.R., Iran	
<i>Syrichius tessellum</i>	Dickson's Sylph	V		South Africa	
<i>Tsitana dicksoni</i>	Maculated Manfreda Skipper	I		U.S.A.	
<b>Family Megathymidae</b>					
<i>Stallingia maculosus</i>					



<i>Papilio aristodemus ponceanus</i>	Schaus' Swallowtail	E	U.S.A.
<i>Papilio aristophontes</i>		I	Comoro Is
<i>Papilio aristor</i>	Scarce Haitian Swallowtail	I	Hispaniola
<i>Papilio benguetanus</i>		V	Philippines
<i>Papilio caiguanabus</i>	Poey's Black Swallowtail	I	Cuba
<i>Papilio carolinensis</i>		V	Philippines
<i>Papilio chikae</i>		E	Philippines
<i>Papilio desmondi teita</i>		E	Kenya
<i>Papilio esperanza</i>	Taita Blue-banded Papilio	V	Mexico
<i>Papilio garleppi</i>		K	South America
<i>Papilio grosesmithi</i>		R	Madagascar
<i>Papilio himeros</i>		V	Argentina, Brazil
<i>Papilio homerus</i>	Homerus Swallowtail	E	Jamaica
<i>Papilio hospiton</i>	Corsican Swallowtail	E	Corsica, Sardinia
<i>Papilio jordani</i>	Jordan's Swallowtail	R	Sulawesi
<i>Papilio leucotaenia</i>	Cream-banded Swallowtail	V	Burundi, Rwanda, Uganda
<i>Papilio mangoura</i>		R	Madagascar
<i>Papilio mantius</i>		I	Mauritius
<i>Papilio maraho</i>		V	Taiwan
<i>Papilio maroni</i>		K	French Guiana
<i>Papilio moeneri</i>		V	Bismarck Arch.
<i>Papilio morondavana</i>	Madagascan Emperor Swallowtail	V	Madagascar
<i>Papilio neumogeni</i>		V	Lesser Sunda Is
<i>Papilio osmana</i>		V	Philippines
<i>Papilio phorbanta</i>		V	Reunion
<i>Papilio phorbanta nana</i>		Ex	[Seychelles]
<i>Papilio sjoestedti</i>		R	Tanzania
<i>Papilio toboroi</i>	Papillon La Pature	R	Bougainville, Solomon Is
<i>Papilio weymeri</i>		R	Bismarck Arch.
<i>Parides ascanius</i>		V	Brazil
<i>Parides burchellanus</i>	Fluminense Swallowtail	V	Brazil
<i>Parides coelus</i>		K	French Guiana
<i>Parides hahneli</i>	Hahnel's Amazonian Swallowtail	R	Brazil
<i>Parides klagesi</i>		K	Venezuela
<i>Parides pizarro</i>		K	Brazil
<i>Parides steinbachi</i>		K	Bolivia
<i>Parnassius apollo</i>	Apollo	R	Europe & U.S.S.R. to China
<i>Parnassius apollo vimingensis</i>		E	F.R.G.
<i>Parnassius autocrator</i>		R	Afghanistan, Tadzhikistan

<i>Parnassius clodius shepardii</i>	Shepard's Clodius Parnassian	I	U.S.A.
<i>Parnassius clodius strohbeeni</i>	Strohbeen's Clodius Parnassian	Ex	[U.S.A.]
<i>Teinopalpus aureus</i>	Golden Kaiser-I-Hind	K	China
<i>Teinopalpus imperialis</i>	Kaiser-I-Hind	R	India to China
<i>Troides aeacus kaguya</i>		E	Taiwan
<i>Troides andromache</i>		I	Sabah, Sarawak
<i>Troides dohertyi</i>	Talaud Black Birdwing	V	Sulawesi
<i>Troides prattorum</i>		I	Moluccas
<b>Family Pieridae</b>			
<i>Artogeia virginiensis</i>	West Virginia White	I	Canada, U.S.A.
<i>Belenois orgyia</i>		E	South Africa
<i>Euchloe hyantis andrewsi</i>	Andrew's Marble Butterfly	I	U.S.A.
<i>Mylothris carcassoni</i>		R	Zimbabwe
<i>Pieris krueperi devta</i>		R	India
<b>Family Lycaenidae</b>			
<i>Alaena margaritacea</i>		V	South Africa
<i>Aloeides caledoni</i>		V	South Africa
<i>Aloeides dentatis</i>		R	South Africa
<i>Aloeides egerides</i>		V	South Africa
<i>Aloeides lutescens</i>		V	South Africa
<i>Argyrocupha malagrida malagrida</i>	Lion's Head Copper	V	South Africa
<i>Argyrocupha malagrida paarlensis</i>	Lion's Head Copper	V	South Africa
<i>Callophrys mossii bayensis</i>	San Bruno Elfin	E	U.S.A.
<i>Capys penningtoni</i>		E	South Africa
<i>Chrysoritis cotrelli</i>		I	South Africa
<i>Chrysoritis oreas</i>		I	South Africa
<i>Chrysoritis zeuxo</i>		I	South Africa
<i>Cyclirius mandersi</i>		I	Mauritius
<i>Deloneura immaculata</i>		Ex?	[South Africa]
<i>Deloneura millari millari</i>		V	South Africa
<i>Deudorix penningtoni</i>		V	South Africa
<i>Deudorix vansoni</i>		V	South Africa
<i>Durbania limbata</i>		V	South Africa
<i>Erikssonia acraeina</i>		R	South Africa
<i>Eumaeus atala florida</i>	Florida Atala Hairstreak	V	U.S.A.
<i>Everes comyntas texanus</i>	Texas Tailed Blue	Ex	[U.S.A.]
<i>Glaucopsyche lygdamus palosverdesensi</i>	Palos Verdes Blue	Ex?	[U.S.A.]

<i>Glaucopsyche xerces</i>	Xerces Blue	Ex	[U.S.A.]
<i>Hemiarctus thomasi bethune-bakeri</i>	Miami Blue Butterfly	I	U.S.A.
<i>Icaricia icarioides missionensis</i>	Mission Blue	E	U.S.A.
<i>Icaricia icarioides moroensis</i>	Moro Blue Bay Blue	I	U.S.A.
<i>Icaricia icarioides pheres</i>	Pheres Blue	I	U.S.A.
<i>Lepidochrysoptis ariadne</i>		E	South Africa
<i>Lepidochrysoptis bacchus</i>		V	South Africa
<i>Lepidochrysoptis hypopolia</i>	Wineland Blue	Ex?	[South Africa]
<i>Lepidochrysoptis loewensteini</i>		V	South Africa
<i>Lepidochrysoptis lotana</i>		E	South Africa
<i>Lepidochrysoptis methymna dicksoni</i>		V	South Africa
<i>Lepidochrysoptis titei</i>		E	U.S.A.
<i>Lycæides argyrognomon lotis</i>	Lotis Blue	I	U.S.A.
<i>Lycæides melissa samuelis</i>	Karner Blue	E	Northern Europe
<i>Lycæna dispar</i>	Large Copper	I	U.S.A.
<i>Lycæna dorcas claytoni</i>	Clayton's Copper	I	U.S.A., Mexico
<i>Lycæna hermes</i>	Hermes Copper	I	Europe, U.S.S.R.
<i>Maculinea alcon</i>	Alcon Large Blue	V	Europe, U.S.S.R.
<i>Maculinea arion</i>	Large Blue	V	China, Japan, U.S.S.R.
<i>Maculinea arionides</i>	Greater Large Blue	V	China, Japan, U.S.S.R.
<i>Maculinea arionides matsumara</i>	Greater Large Blue	V	Europe, U.S.S.R.
<i>Maculinea nausithous</i>	Dusky Large Blue	E	Europe, U.S.S.R.
<i>Maculinea rebeli</i>	Rebel's Large Blue	V	South & Central Europe
<i>Maculinea teleius</i>	Scarce Large Blue	E	Europe & Northern Asia
<i>Maculinea teleius burdigalensis</i>	Scarce Large Blue	E	France
<i>Notarcthrinus binghami</i>		R	India
<i>Oreolyce dohertyi</i>	Naga Hedge Blue	R	India
<i>Ornipholidotos peuceia penningtoni</i>	White Mimic	I	Mozambique, South Africa
<i>Oxychaeta dicksoni</i>	Dickson's Copper	E	South Africa
<i>Panchala ganesa loomisi</i>	Tailless Blue	E	Japan
<i>Philotiella speciosa bohartorum</i>	Bohart's Blue	I	U.S.A.
<i>Plebejus emigdionis</i>	San Emigdio Blue	I	U.S.A.
<i>Plebejus icarioides missionensis</i>	Mission Blue	E	U.S.A.
<i>Plebicula golgus</i>	Nevada Blue	E	Spain
<i>Poecilmitis adonis</i>		V	South Africa
<i>Poecilmitis aureus</i>		I	South Africa
<i>Poecilmitis endymion</i>		V	South Africa
<i>Poecilmitis lycurium</i>		V	South Africa
	Tsomo River Copper		

<i>Poecilmitis nigricans</i>	Blue Jewel Copper	V	South Africa
<i>Poecilmitis rileyi</i>		V	South Africa
<i>Pseudalmenus chlorinda chlorinda</i>		I	Tasmania
<i>Pseudalmenus chlorinda conara</i>		I	Tasmania
<i>Pseudiolaus lulua</i>	White Spotted Sapphire	V	South Africa
<i>Shijimiaeoides battoides allyni</i>	El Segundo Blue	E	U.S.A.
<i>Shijimiaeoides battoides comstocki</i>	Comstock's Blue	I	U.S.A.
<i>Shijimiaeoides enoptes smithi</i>	Smith's Blue	E	U.S.A.
<i>Shijimiaeoides langstoni langstoni</i>	Langston's Blue	I	U.S.A.
<i>Shijimiaeoides rita mattonii</i>	Mattoni's Blue	I	U.S.A.
<i>Spindasis collinsi</i>		V	Tanzania
<i>Strymon acis bartrami</i>	Bartram's Hairstreak	I	U.S.A.
<i>Strymon avalona</i>	Avalon Hairstreak	K	U.S.A.
<i>Thestor dicksoni dicksoni</i>	Dickson's Thestor	V	South Africa
<i>Thestor kaplani</i>	Kaplan's Thestor	V	South Africa
<i>Thestor tempe</i>		V	South Africa
<i>Trimenia wallengrenii</i>	Wallengren's Copper	V	South Africa
<i>Uranothauma usambarae</i>		V	Tanzania

#### Family Libytheidae

*Libythea cinyras*

Ex [Mauritius]

#### Family Danaidae (or Nymphalidae: Danainae)

*Amauris comorana*

*Amauris nossima*

*Amauris pheodan*

*Anetia briarea*

*Anetia cubana*

*Anetia jaegeri*

*Anetia pantheratus*

*Danaus cleophile*

*Euploea albicosta*

*Euploea blossomae*

*Euploea caespes*

*Euploea configurata*

*Euploea cordelia*

*Euploea deniplaga*

*Euploea doretta*

*Euploea eboraci*

R	Comoro Is
R	Comoro Is, Madagascar
R	Mauritius
R	Cuba, Hispaniola
R	Cuba
R	Hispaniola
R	Cuba, Hispaniola
K	Hispaniola, Jamaica
R	Irian Jaya
R	Philippines
R	Indonesia
R	Sulawesi
R	Sulawesi
R	Indonesia
R	Bismarck Arch.
R	Bismarck Arch.

<i>Euploea eupator</i>	R	Sulawesi
<i>Euploea euphon</i>	R	Mauritius, Reunion, Rodrigues
<i>Euploea gamelia</i>	R	Java
<i>Euploea lacon</i>	R	Bismarck Arch.
<i>Euploea latifasciata</i>	R	Sulawesi
<i>Euploea magou</i>	R	Sulawesi
<i>Euploea martinii</i>	R	Sumatra
<i>Euploea miira</i>	R	Seychelles
<i>Euploea tobleri</i>	R	Philippines
<i>Euploea tripunctata</i>	R	Irian Jaya
<i>Idea electa</i>	R	Philippines
<i>Idea iasonia</i>	R	Sri Lanka
<i>Idea malabarica</i>	R	India
<i>Idea tambusisiana</i>	K	Sulawesi
<i>Ideopsis hewitsonii</i>	R	Irian Jaya
<i>Ideopsis klassika</i>	R	Indonesia
<i>Ideopsis oberthurii</i>	R	Indonesia
<i>Parantica albata</i>	R	Java, Sumatra
<i>Parantica clinias</i>	R	Bismarck Arch.
<i>Parantica crowleyi</i>	R	Borneo
<i>Parantica dannatii</i>	R	Philippines
<i>Parantica davidi</i>	E	Philippines
<i>Parantica garamantis</i>	R	Bougainville, Solomon Is
<i>Parantica kirbyi</i>	K	New Guinea
<i>Parantica kuekenethali</i>	R	Sulawesi
<i>Parantica marcia</i>	R	Irian Jaya
<i>Parantica menadensis</i>	R	Sulawesi
<i>Parantica milagros</i>	R	Philippines
<i>Parantica nilgiriensis</i>	R	India
<i>Parantica philo</i>	R	Indonesia
<i>Parantica phyle</i>	R	Philippines
<i>Parantica pseudomelaneus</i>	R	Java
<i>Parantica pumila</i>	R	New Caledonia
<i>Parantica rotundata</i>	R	Bismarck Arch.
<i>Parantica schoenigi</i>	R	Philippines
<i>Parantica sulewattan</i>	R	Sulawesi
<i>Parantica taprobana</i>	R	Sri Lanka
<i>Parantica titiyoides</i>	R	Sumatra
<i>Parantica toxopei</i>	R	Sulawesi

## Sulawesi Tree Nymph



*Parantica wegneri* R Indonesia  
*Parantica wetskei* R New Guinea  
*Protoploea apatela* R New Guinea  
*Tiradelphe schneideri* R Solomon Is  
*Tirumala euploeomorpha* R Solomon Is  
*Tirumala gautama* R Indochina, China, Malaysia

**Family Satyridae (or Nymphalidae: Satyrinae)**

*Coenonympha oedippus* E Europe & Northern Asia  
*Erebia annada annada* R Bhutan, India  
*Erebia christi* V Italy, Switzerland  
*Erebia gorgone* I France  
*Erebia narasingha narasingha* R India  
*Erebia ottomana* R Southern Europe  
*Erebia scipio* R France, Italy  
*Erebia sthenyo* R France, Spain  
*Erebia sudetica* V Europe  
*Lethe distans* R Burma, India  
*Lethe dura gammiei* R Bhutan, India  
*Lethe europa tamuna* R India  
*Lethe gemina gafuri* R India  
*Lethe margaritae* R Bhutan, India  
*Lethe ocellata lyncus* R Bhutan, Burma, India  
*Lethe ramadeva* R India  
*Lethe satyawati* R India  
*Pararge menava maeroides* R South Africa  
*Stygionympha dicksoni* V Burma, India  
*Ypthima doherityi persimilis* R Dickson's Brown

**Family Nymphalidae (or Nymphalidae: Nymphalinae)**

*Anaea floralis* I U.S.A.  
*Antanartia borbonica* I Madagascar, Mauritius, Reunion  
*Antanartia borbonica mauritiana* E Mauritius  
*Apaturopsis kilusa* R Madagascar  
*Apaturopsis pauliani* R Madagascar  
*Apodemia mormo langei* E U.S.A.  
*Boloria acrocnemata* V U.S.A.  
*Cercyonis sthenele sthenele* Ex [U.S.A.]  
*Charaxes cowani* R Madagascar

Lange's Metalmark  
 Uncompahgre Fritillary Butterfly  
 Sthenele Wood Nymph

<i>Charaxes druceanus entabeni</i>	Silver Barred Charaxes	V	South Africa
<i>Charaxes druceanus williamsi</i>		I	Kenya
<i>Charaxes durnfordi nicholi</i>	Chestnut Rajah	R	Burma, India
<i>Charaxes karkloof capensis</i>		V	South Africa
<i>Charaxes marieps</i>		V	South Africa
<i>Charaxes usambarae</i>		V	Tanzania
<i>Charaxes xiphares desmondi</i>		V	Kenya
<i>Charaxes xiphares xiphares</i>	Western Forest Emperor	V	South Africa
<i>Cymothoe alcimeda alcimeda</i>	Battling Glider	V	South Africa
<i>Cymothoe amaniensis</i>		V	Tanzania
<i>Cymothoe aurivillii</i>		R	Tanzania
<i>Cymothoe magambae</i>		V	Tanzania
<i>Cymothoe melanjae</i>		R	Tanzania
<i>Cymothoe teita</i>		R	Malawi
<i>Doleschallia bisaltide andamana</i>	Andaman Leafwing	V	Kenya
<i>Euphydryas editha bayensis</i>	Bay Checkerspot Butterfly	R	Andaman Is
<i>Euphydryas editha monoensis</i>	Mono Checkerspot Butterfly	E	U.S.A.
<i>Euryphura achlys</i>	Mottled Green	I	U.S.A.
<i>Euthalia malapana</i>		I	East & South Africa
<i>Euxanthe madagascariensis</i>		Ex	[Taiwan]
<i>Fabriciana elisa</i>	Corsican Fritillary	R	Madagascar
<i>Heliconius charltonius peruvianus</i>		V	France, Italy
<i>Heliconius nattereri</i>	Natterer's Longwing	V	Ecuador, Peru
<i>Heteronympha cordace complena</i>		E	Brazil
<i>Hypodryas maturna</i>		I	Tasmania
<i>Hypolimnas antevorta</i>		E	Europe
<i>Hypolimnas dubius drucei</i>	Scarce Fritillary	V	Tanzania
<i>Neptis decaryi</i>		I	Comoro Is, Madagascar, Mauritius
<i>Neptis manasa</i>	Pale Hockeysticker Sailer	R	Madagascar
<i>Neptis metella gratilla</i>		R	China, India, Sikkim
<i>Neptis nycteus</i>		R	Madagascar
<i>Neptis sankara nar</i>		R	Sikkim
<i>Neptis sextilla</i>		R	Andaman Is
<i>Phalanta philiberti</i>		I	Madagascar
<i>Phycodes batesi</i>	Tawny Crescent Butterfly	E	Seychelles
<i>Salamis angustina angustina</i>	Salamis Retrecie	I	U.S.A.
<i>Salamis angustina vinsoni</i>	Salamis Retrecie	I	Madagascar, Mauritius
<i>Sasakia charonda</i>		Ex	Madagascar, Reunion
		I	[Mauritius]
		I	Japan, Taiwan



**Family Saturniidae**

*Graellsia isabelae*  
*Saturnia pyri*

V France, Spain  
E Austria, Czechoslovakia, F.R.G.

**Family Sphingidae**

*Celerio wilsoni perkinsi*  
*Euproserpinus euterge*  
*Euproserpinus wiesiti*  
*Hyles hippophaes*  
*Manduca blackburni*  
*Proserpinus proserpina*  
*Tinostoma smaragditis*

E Hawaii  
V U.S.A.  
E U.S.A.  
V Europe & U.S.S.R.  
Ex? [Hawaii]  
V Central & South Europe, Middle East  
Ex? [Hawaii]

Fabulous Green Sphinx of Kauai

**Family Noctuidae**

*Acrionicta albarufa*  
*Agrotis crinigera*  
*Agrotis fasciata*  
*Agrotis kerri*  
*Agrotis laysanensis*  
*Agrotis photophila*  
*Agrotis procellaris*  
*Catocala marmorata*  
*Catocala pretiosa*  
*Erythroecia hebaridi*  
*Helicoverpa confusa*  
*Helicoverpa minuta*  
*Hydraecia petasitis*  
*Hypena laysanenensis*  
*Hypena newelli*  
*Hypena plagiota*  
*Hypena senicula*  
*Lithophane lemmeri*  
*Peridroma porphyrea*  
*Pyreferra ceromaitica*

Albarufan Dagger Moth  
Poko Noctuid Moth  
Midway Noctuid Moth  
Kerr's Noctuid Moth  
Laysan Noctuid Moth  
Procellaris grotis Noctuid Moth  
Marbled Underwing Moth  
Precious Underwing Moth  
Hebard's Noctuid Moth  
Confused Moth  
Minute Noctuid Moth  
Laysan Dropseed Noctuid Moth  
Hilo Noctuid Moth  
Lovegrass Noctuid Moth  
Kaholuamano Noctuid Moth  
Lemmer's Noctuid Moth  
Ceromatic Noctuid Moth

I Canada, U.S.A.  
Ex? [Hawaii]  
Ex [Hawaii]  
Ex? [Hawaii]  
Ex [Hawaii]  
Ex [Hawaii]  
Ex [Hawaii]  
I U.S.A.  
I U.S.A.  
I U.S.A.  
Ex? [Hawaii]  
Ex [Hawaii]  
E Austria, F.R.G.  
Ex [Hawaii]  
Ex? [Hawaii]  
Ex? [Hawaii]  
Ex? [Hawaii]  
I U.S.A.  
Ex [Hawaii]  
I Canada, U.S.A.

Nihoa Eupelmus Wasp

I Hawaii

**Order HYMENOPTERA****Family Eupelmidae**

*Eupelmus nihoaensis*

**Family Bethyilidae**  
*Sclerodermus nihoaensis*

I Hawaii

Nihoa Sclerodermus Wasp

**Family Mutillidae**  
*Myrmosula pacifica*

I U.S.A.

Antioch Mutillid Wasp

**Family Formicidae**

*Anergates atratulus* I F.R.G., Switzerland, U.K.

*Aneuretus simoni* K Sri Lanka

*Aulacopone relicta* K Azerbaydzhan

*Camponotus aethiops* I F.R.G.

*Camponotus dalmanicus* I Switzerland

*Camponotus fallax* I F.R.G.

*Camponotus universitatis* I F.R.G., France

*Epinyrma goesswaldi* I Europe

*Epinyrma ravouxi* R Central & Southern Europe

*Formica aquilonia* V F.R.G.

*Formica lugubris* V F.R.G., Italy

*Formica polyctena* V F.R.G., Italy

*Formica pratensis* V U.K.

*Formica rufa* V Central Europe

*Formica transkaucasica* I Northern Europe

*Formica wralensis* I F.R.G., Switzerland

*Leptothorax goesswaldi* K Switzerland

*Myrmica bibikoffi* I Switzerland

*Myrmica slovaca* I Switzerland

*Nothomyrmecia macrops* K Australia

*Polyergus rufescens* I F.R.G.

**Family Vespidae**

*Odynerus niihauensis* E Hawaii

*Odynerus soror* E Hawaii

Niihau Vespid Wasp

Soror Vespid Wasp

**Family Sphecidae**

*Deinomimesa hawaiiensis* E Hawaii

*Deinomimesa punae* E Hawaii

*Ectemnius curtipes* E Hawaii

*Ectemnius fulvicrus* E Hawaii

*Ectemnius giffardi* E Hawaii

Hawaiian Sphecid Wasp

Puna Sphecid Wasp

Short-foot Sphecid Wasp

Brown Cross Sphecid Wasp

Giffard's Sphecid Wasp

*Ectemnius haleakalae* E Hawaii  
*Ectemnius nesocrabo bidecoratus* I Hawaii  
*Eucerceris ruficeps* I U.S.A.  
*Nesomimesa kawaiensis* E Hawaii  
*Nesomimesa perkins* E Hawaii  
*Nesomimesa sciopteryx* E Hawaii  
*Philanthus nasalis* I U.S.A.

**Family Colletidae**  
*Nesoprotopis* (57 species) T Hawaii

**Family Andrenidae**  
*Perdita hirticeps luteocincta* I U.S.A.  
*Perdita scitula antiochensis* I U.S.A.

**Family Megachilidae**  
*Chalicodoma pluto* K Moluccas

**CLASS ONYCHOPHORA**

**Order ONYCHOPHORA**

**Family Peripatidae**  
**Family Peripatopsidae**  
*Dendy* sp. (3 species) V Equatorial Tropics  
*Euperipatoides sp.nr. leuckartii* V Southern Hemisphere  
*Ooperipatellus insignis* I Tasmania  
I Tasmania

**Phylum ECHINODERMATA**

**CLASS ECHINOIDA**

**Order ECHINOIDA**

**Family Echinidae**

*Echinus esculentus*  
*Paracentrotus lividus*

K North-east Atlantic  
CT North-east Atlantic, Mediterranean

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The Red Data Book concept, originated by Sir Peter Scott in the mid-1960s, aims to focus attention on the plight of the earth's vanishing wildlife. The concept has been outstandingly successful and, two decades later, many national, regional, and global Red Data Books have been published, with many more countries in the process of compiling their own lists of threatened species. The information provided in national and regional compilations will inevitably be more detailed than the global overviews produced by IUCN. There is, however, an increasing demand for an international list that categorises the status of globally threatened taxa, and it is to meet this demand that the IUCN Red List of Threatened Animals has been produced. This edition is an update of the original 1986 Red List, and it is proposed to publish new editions on a regular basis.

Produced from the databases of the IUCN Conservation Monitoring Centre, the Red List presents for each threatened species the scientific name, the English vernacular name, the IUCN threatened category, and a brief description of the animal's range. This is followed by an index to the list based on the order, family, and generic names, with vernacular names for major groupings. Also included is an overview of biotic extinctions prepared by Bruce Wilcox of the Center for Conservation Biology at Stanford University. A guest essay will be a regular feature of future editions.

Whilst the length of the list makes depressing reading, the information it contains is of fundamental value to animal conservationists.

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